

COLUMBIA UNIVERSITY BULLETIN

BARNARD COLLEGE



ANNOUNCEMENT FOR 1961-1962

Sixty-first Series No. 14, April 8, 1961

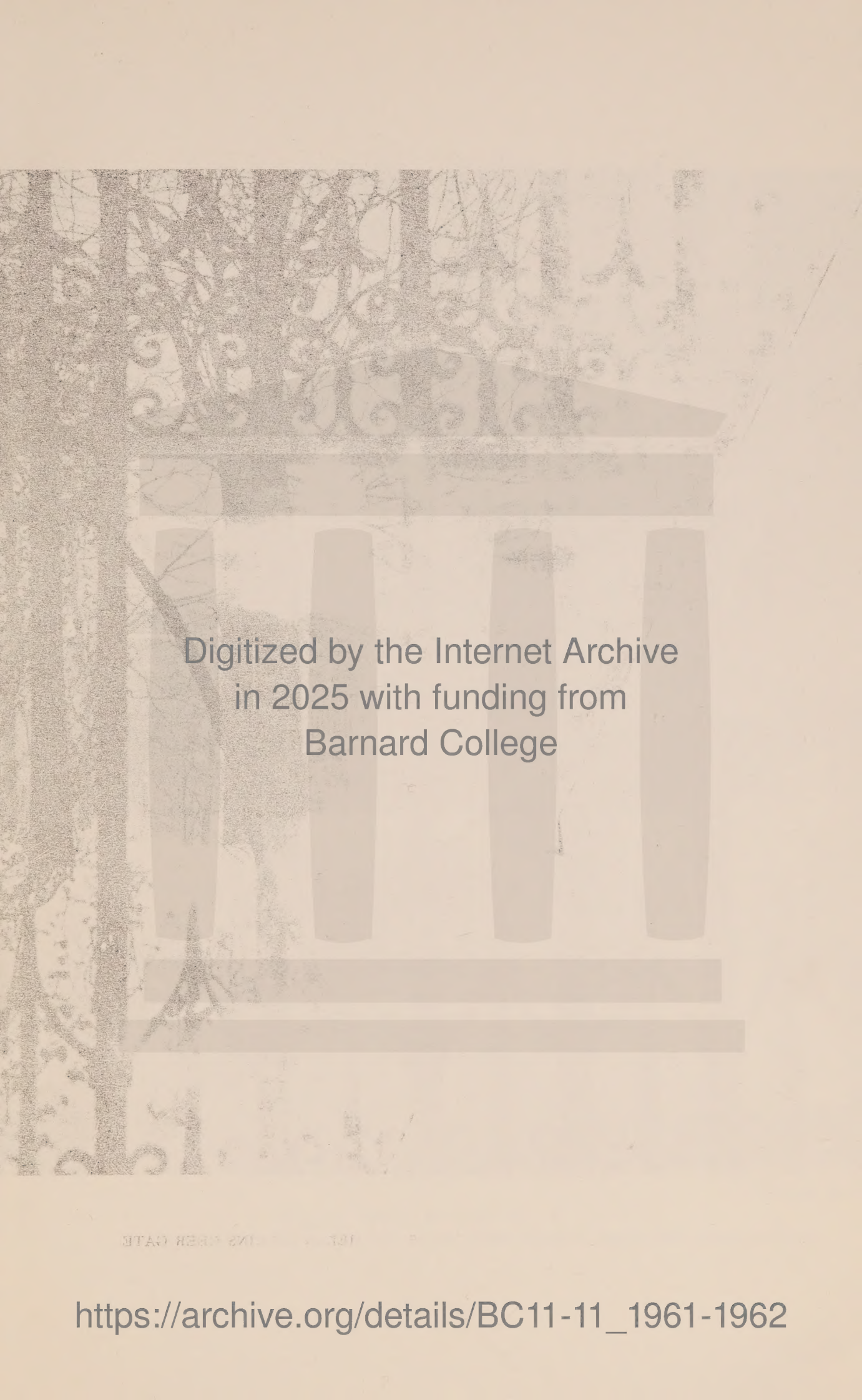
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SIXTY-FIRST SERIES, No. 14

APRIL 8, 1961

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The background of the page features a faint, sepia-toned illustration. On the left, there are several tall, slender trees with dense foliage. To the right, a classical building with four prominent columns and a pediment is visible. The entire scene is rendered in a soft, artistic style typical of early 20th-century book design.

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THE UNDERGRADUATE COLLEGE

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Columbia University

1961 - 1962

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COMMUNICATION WITH THE COLLEGE

Students and prospective students should read carefully the pertinent sections of this Announcement, as indicated below, before writing or requesting applications.

The post office address is Barnard College, 606 West 120th Street, New York 27, N. Y. The telephone number is UNiversity 5-4000.

Inquiries should be addressed as follows:

General matters pertaining to the College: the General Secretary

Admission to the freshman class or with advanced standing, information about scholarships for entering students and requests for catalogues: the Director of Admissions

Scholarships and loan funds for students in college: the Dean of Studies

Academic work of students: the Class Advisers

Payment of college bills: the Bursar

Requests for transcripts and notices of withdrawal: the Registrar

Health: the College Physician

Opportunities for self-help, recommendations for employment: the Placement Office

Gifts or bequests: the General Secretary

Alumnae: the Executive Secretary of the Associate Alumnae

Public Relations: the Director of Public Relations

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BARNARD is the undergraduate liberal arts college for women of Columbia University. Since its founding in 1889, it has aimed to offer young women an education of high standard. Through giving wide opportunities for serious study, it has opened to its students the delights of learning and the training prerequisite for the professions.

Because of Barnard's relationship to Columbia, our curriculum is extensive in its scope as well as demanding in its approach to study. Whatever its students desire to learn may be found in the opportunities offered by our faculty and by a great University; whatever fruits of learning they wish to taste — whether in the arts or in the business of the community — they may discover in New York City, of which Barnard is proud to be a part. In addition, they will find a well-rounded, mature program of college activities, shared with student members of the University community.

Underlying our curriculum and our daily round of activity is the conviction that a college education is a high privilege; that those who have great opportunity have the responsibility to use it to the full. For learning alone is not enough; it must be used with wisdom to make living creative and effective. We welcome students who share this conviction; who wish to learn so that they may take their part in our complex and exciting world.

Mellicent C. McIntosh

I. Organization

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MRS. WILLIAM P. WHITE, *Alumnae Trustee*
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Faculty Representatives to Meet with Trustees

PROFESSOR AMELIA A. DE DEL RÍO
PROFESSOR DAVID A. ROBERTSON, JR.

THE FACULTY OF BARNARD COLLEGE

GRAYSON KIRK, 1952, President of the University

A.B., Miami; A.M., Clark; Ph.D., Wisconsin; LL.D.

MILLICENT CAREY MC INTOSH, 1947, President of Barnard College and
Dean in the University

A.B., Bryn Mawr; Ph.D., Johns Hopkins; LL.D.; Litt.D.; L.H.D.

HENRY A. BOORSE, 1937, Dean of the Faculty and Professor of Physics

B.S., United States Naval Academy; A.M., Ph.D., Columbia

HELEN PHELPS BAILEY, 1933, Dean of Studies and Associate Professor of
French

A.B., Barnard; A.M., Ph.D., Columbia

RENÉ ALBRECHT-CARRIÉ, 1945, Professor of History

A.B., A.M., Ph.D., Columbia

HELEN H. BACON, 1961, Visiting Associate Professor of Classics

A.B., Ph.D., Bryn Mawr

BERNARD BARBER, 1952, Professor of Sociology

A.B., A.M., Ph.D., Harvard

LUCENA J. BARTH, 1955, Assistant Professor of Zoology

A.B., A.M., Missouri; Ph.D., Columbia

¹JOSEPH GERARD BRENNAN, 1947, Associate Professor of Philosophy

A.B., Boston College; A.M., Harvard; Ph.D., Columbia

LE ROY C. BREUNIG, 1953, Professor of French

A.B., DePauw; Ph.D., Cornell

²SIDNEY A. BURRELL, 1947, Associate Professor of History

A.B., Chicago; Ph.D., Columbia

MARIANNA BYRAM, 1926, Assistant Professor of Art History

A.B., Barnard; A.M., Radcliffe

BARBARA S. CANNELL, 1957, Assistant Professor of Psychology

A.B., Nebraska; A.M., Columbia

ANN CHOWNING, 1958, Assistant Professor of Anthropology

A.B., Bryn Mawr; A.M., Ph.D., Pennsylvania

The dates refer to the beginning of service in the College and not necessarily to the assumption of the current title.

¹ Absent on leave, Autumn Term.

² Absent on leave, 1961-62.

THE FACULTY

- ROSALIE COLIE, 1960, Visiting Associate Professor in the Humanities
A.B., Vassar; A.M., Ph.D., Columbia
- ¹WILLIAM A. CORPE, 1956, Associate Professor of Botany
A.B., A.M., Wisconsin; Ph.D., Pennsylvania State
- BARBARA M. CROSS, 1959, Assistant Professor of English
A.B., Smith; A.M., Yale; Ph.D., Radcliffe
- ELIZABETH CZONICZER, 1952, Assistant Professor of French and Italian
Absolut., Budapest; A.M., Chicago; Ph.D., Columbia
- MARGARITA U. DA CAL, 1943, Associate Professor of Spanish
Bach., Instituto-Escuela de Madrid; A.M., Ph.D., Columbia
- LOUISE ELLIOTT DALBY, 1956, Assistant Professor of History
B.S., A.M., Nebraska; Ph.D., Radcliffe
- WILLIAM D. DAVIES, 1962, Visiting Professor of Religion
B.D., D.D., Wales; M.A., Cambridge
- JOHN DAY, 1931, Professor of Greek and Latin
A.B., Ohio State; Ph.D., Johns Hopkins
- TAMARA DAYKARHANOVA, 1958, Adjunct Assistant Professor of English
Moscow Art Theatre School; University of Moscow
- ²INGRITH J. DEYRUP, 1947, Professor of Zoology
A.B., Barnard; Ph.D., Columbia
- HUBERT DORIS, 1957, Assistant Professor of Music
A.B., Harvard; A.M., Columbia
- ²JOANNE ELLIOTT, 1955, Associate Professor of Mathematics
A.B., Pembroke; A.M., Ph.D., Cornell
- EUGENIO FLORIT, 1945, Professor of Spanish
D. en D., Havana
- RENÉE CLAIRE FOX, 1955, Assistant Professor of Sociology
A.B., Smith; Ph.D., Radcliffe
- LAURA R. DE GARCÍA-LORCA, 1948, Associate Professor of Spanish
Lic. en F., Madrid; Ph.D., Columbia
- MARION HAMILTON GILLIM, 1952, Associate Professor of Economics
A.B., Mount Holyoke; A.M., Ph.D., Columbia
- AUBREY GORBMAN, 1946, Professor of Zoology
A.B., M.S., Wayne; Ph.D., California

¹ Joint appointment with Columbia.

² Absent on leave, 1961-62.

BARNARD COLLEGE

- DANIEL A. GREENBERG, 1959, Assistant Professor of Physics
B.S., Hebrew University; A.M., Ph.D., Columbia
- TATIANA GREENE, 1946, Assistant Professor of French
Candid. en Phil. et Lettres, Brussels; A.M., Ph.D., Columbia
- W. CABELL GREET, 1926, McIntosh Professor of English
A.B., University of the South; A.M., Ph.D., Columbia; Litt.D.
- VIRGINIA D. HARRINGTON, 1942, Associate Professor of History
A.B., Barnard; A.M., Ph.D., Columbia
- JULIUS S. HELD, 1937, Professor of Art History
Ph.D., Freiburg
- MARGARET HOLLAND, 1926, Associate Professor of Physical Education
B.S., A.M., Columbia
- LUCYLE HOOK, 1949, Associate Professor of English
A.B., B.S., Texas State College; A.M., Columbia; Ph.D., New York
- JUDITH JARVIS, 1956, Assistant Professor of Philosophy
A.B., Barnard; M.A., Cambridge; Ph.D., Columbia
- TRACY S. KENDLER, 1954, Associate Professor of Psychology
A.B., Brooklyn; A.M., Ph.D., State University of Iowa
- EDWARD J. KING, 1946, Professor of Chemistry
A.B., State University of Iowa; Ph.D., Yale
- RUTH MONTGOMERY KIVETTE, 1952, Assistant Professor of English
A.B., Barnard; A.M., Ph.D., Columbia; B.D., Union Theological Seminary
- RENÉE J. KOHN, 1952, Assistant Professor of French
Lic. ès Lettres, Grenoble; Agrégée de l'Université, Sorbonne
- MIRRA KOMAROVSKY, 1934, Professor of Sociology
A.B., Barnard; A.M., Ph.D., Columbia
- JOHN KOUWENHOVEN, 1946, Professor of English
A.B., Wesleyan; A.M., Ph.D., Columbia
- MARION LAWRENCE, 1929, Professor of Art History
A.B., Bryn Mawr; A.M., Ph.D., Radcliffe
- ¹ROBERT LEKACHMAN, 1947, Associate Professor of Economics
A.B., Ph.D., Columbia
- EDGAR R. LORCH, 1937, Professor of Mathematics
A.B., Ph.D., Columbia

¹ Absent on leave, 1961-62.

THE FACULTY

MARISTELLA DE PANIZZA LORCH, 1951, Associate Professor of Italian
Dott. in Lett. e Filos, Rome

OTTO LUENING, 1944, Professor of Music on the Joline Foundation
Royal Academy of Music, Munich; University of Zurich

CATHARINE MC CLELLAN, 1956, Assistant Professor of Anthropology
A.B., Bryn Mawr; Ph.D., California

¹JANE G. MAHLER, 1935, Associate Professor of Art History
A.B., Wisconsin; A.M., Ph.D., Columbia

JOHN MESKILL, 1960, Assistant Professor of Chinese and Japanese
A.B., Harvard; Ph.D., Columbia

ANDRÉ MESNARD, 1936, Associate Professor of French
A.B., A.M., Columbia

GLADYS MEYER, 1948, Associate Professor of Sociology
A.B., Wellesley; Ph.D., Columbia

¹JOHN A. MOORE, 1943, Professor of Zoology
A.B., A.M., Ph.D., Columbia

PHOEBE MORRISON, 1952, Professor of Government
A.B., Vassar; LL.B., George Washington; J.S.D., Yale

JAMES MUILENBERG, 1961, Visiting Professor of Religion
A.B., Hope; A.M., Nebraska; Ph.D., Yale; L.H.D., Maine;
D.D., Pacific School of Religion

³URSULA M. NIEBUHR, 1940, Associate Professor of Religion
B.A., M.A., Oxford; S.T.M., Union Theological Seminary

RICHARD A. NORMAN, 1954, Assistant Professor of English
A.B., George Washington; A.M., Ph.D., Columbia

BARBARA NOVAK, 1958, Assistant Professor of Art History
A.B., Barnard; A.M., Ph.D., Radcliffe

¹ROBERT NOVICK, 1960, Associate Professor of Physics
M.E., M.S., Stevens Institute of Technology; Ph.D., Columbia

²REMINGTON P. PATTERSON, 1955, Assistant Professor of English
A.B., A.M., Ph.D., Yale

THOMAS P. PEARDON, 1923, Professor of Government
B.A., British Columbia; A.M., Clark; Ph.D., Columbia

¹ Joint appointment with Columbia.

² Absent on leave, Autumn Term.

³ Absent on leave, 1961-62.

BARNARD COLLEGE

ROSEMARY PIERREL, 1955, Associate Professor of Psychology
A.B., A.M., Boston; Ph.D., Brown

JEAN A. POTTER, 1952, Associate Professor of Philosophy
A.B., Bryn Mawr; A.M., Radcliffe; Ph.D., Yale

BASIL RAUCH, 1941, Professor of History
A.B., Notre Dame; Ph.D., Columbia

AMELIA A. DE DEL RÍO, 1930, Professor of Spanish
A.B., Vassar; A.M., Columbia; Ph.D., Madrid

DONALD D. RITCHIE, 1948, Associate Professor of Botany
A.B., B.S., Furman; A.M., Ph.D., North Carolina

DAVID A. ROBERTSON, JR., 1940, Professor of English
A.B., A.M., Ph.D., Princeton

²ELEANOR ROSENBERG, 1953, Professor of English
A.B., Barnard; A.M., Ph.D., Columbia

RAYMOND J. SAULNIER, 1938, Professor of Economics
B.S., Middlebury; A.M., Tufts; Ph.D., Columbia

WILLY SCHUMANN, 1955, Assistant Professor of German
A.B., A.M., Southern Methodist; Ph.D., Columbia

HENRY S. SHARP, 1941, Professor of Geology
A.B., Cornell; A.M., Ph.D., Columbia

J. GILMOUR SHERMAN, 1958, Assistant Professor of Psychology
A.B., Bowdoin; A.M., Ph.D., Columbia

LOUISE G. STABENAU, 1925, Assistant Professor of German
Abitur, Bremen; A.M., Columbia

HAROLD STAHLER, 1957, Assistant Professor of Religion
A.B., Dartmouth; B.D., Union Theological Seminary;
Ph.D., Cambridge

¹EMMA DIETZ STECHER, 1945, Professor of Chemistry
A.B., Barnard; A.M., Columbia; Ph.D., Bryn Mawr

MARION STRENG, 1930, Associate Professor of Physical Education
B.S., Wisconsin; A.M., Columbia

HOWARD M. TEICHMANN, 1946, Adjunct Assistant Professor of English
A.B., Wisconsin

THOMAS TIGHE, 1958, Assistant Professor of Psychology
A.B., Trinity; Ph.D., Cornell

¹ Absent on leave, Spring Term.

² Absent on leave, 1961-62.

THE FACULTY

ELEANOR M. TILTON, 1950, Professor of English
A.B., Mount Holyoke; A.M., Boston; Ph.D., Columbia

GLORIA TORALBALLA, 1958, Assistant Professor of Chemistry
B.S., Philippines; Ph.D., Michigan

BARRY ULANOV, 1951, Associate Professor of English
A.B., Ph.D., Columbia

¹CHILTON WILLIAMSON, 1942, Professor of History
A.B., A.M., Ph.D., Columbia

FERN W. YATES, 1927, Assistant Professor of Physical Education
A.B., Barnard; A.M., Columbia

¹RICHARD PARDEE YOUTZ, 1940, Professor of Psychology
A.B., Carleton; Ph.D., Yale

¹LEONARD ZOBLER, 1955, Associate Professor of Geography
B.S., M.S., State College of Washington; Ph.D., Columbia

FORREST L. ABBOTT, 1953, Treasurer and Controller
B.S., Southwest Missouri State Teachers; A.M., Ed.D., Columbia

ESTHER GREENE, 1944, Librarian
A.B., Grinnell; B.S., Simmons

MARJORY J. NELSON, 1948, College Physician
A.B., Barnard; M.D., Cornell

JEAN T. PALMER, 1946, General Secretary
A.B., Bryn Mawr

SARAH KATHARINE THOMSON, 1955, Reference Librarian
A.B., Agnes Scott; M.S., Columbia

FACULTY EMERITI

VIRGINIA C. GILDERSLEEVE, 1900-1947, Dean Emeritus
Ph.D., LL.D., Litt.D., L.H.D.

IDA H. OGILVIE, 1906-1941, Professor Emeritus of Geology
Ph.D.

WILLIAM T. BREWSTER, 1897-1943, Professor Emeritus of English
A.M., Litt.D.

¹ Absent on leave, Spring Term.

BARNARD COLLEGE

GERTRUDE M. HIRST, 1901-1943, Professor Emeritus of Greek and Latin
Ph.D., M.A. (Cantab.)

MARIE REIMER, 1903-1945, Professor Emeritus of Chemistry
Ph.D.

MARGUERITE MESPOULET, 1934-1947, Professor Emeritus of French
Agrégee de l'Université

MINOR W. LATHAM, 1914-1948, Professor Emeritus of English
Ph.D.

WILLIAM HALLER, 1909-1950, Professor Emeritus of English
Ph.D., L.H.D.

FLORENCE DE LOISELLE LOWTHER, 1914-1950, Professor Emeritus of
Zoology, Ph.D.

ELIZABETH FAULKNER BAKER, 1919-1952, Professor Emeritus of
Economics, Ph.D.

HUGH WILEY PUCKETT, 1916-1953, Professor Emeritus of German
Ph.D.

HELEN R. DOWNES, 1933-1960, Professor Emeritus of Chemistry
Ph.D.

OTHER OFFICERS OF INSTRUCTION

ELLEN BATT, 1960, Assistant in Zoology
A.B., Barnard

ANNETTE KAR BAXTER, 1952, Associate in History
A.B., Barnard; A.M., Smith; A.M., Radcliffe; Ph.D., Brown

PHYLLIS M. BIGEL, 1957, Instructor in Physical Education
B.S., Brooklyn; M.S., Illinois

¹ELIZABETH BLAKE, 1956, Instructor in French and
Supervisor of Language Laboratory
A.B., Barnard; A.M., Middlebury

ROBERTA BRUCK, 1960, Assistant in Zoology
A.B., Douglass

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A.B., Barnard; M.A., Columbia

¹ Absent on leave, 1961-62.

THE FACULTY

DEMETRIOS CARALEY, 1961, Instructor in Government
A.B., Columbia

HELEN M. CARLSON, 1942, Associate in French
A.B., Grinnell; A.M., Columbia

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A.B., California

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Acting Supervisor of Language Laboratory
A.B., Russell Sage; A.M., Columbia

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A.B., Barnard

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B.S., A.M., Columbia

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A.B., Barnard; A.M., Columbia

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A.B., Barnard

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A.B., Wellesley

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A.B., A.M., Brooklyn

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A.B., Barnard

SAMUEL DRAPER, 1960, Lecturer in English
A.B., A.M., California

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A.B., Barnard

PATRICIA L. DUDLEY, 1959, Instructor in Zoology
A.B., A.M., Colorado; Ph.D., Washington

MARY C. EFTHIMION, 1961, Assistant in Botany
A.B., Our Lady of the Elms; A.M., Boston College

¹JIRINA M. EMERSON, 1958, Lecturer in Government
A.B., Bryn Mawr

ELIZABETH ENRIGHT, 1960, Lecturer in English

¹ Absent on leave, 1961-62.

BARNARD COLLEGE

- MARIA TERESA ESCOBAL, 1946, Lecturer in Spanish
Bach., Colegio de la Enseñanza
- JANICE FARRAR, 1956, Instructor in English
A.B., Barnard; A.M., Columbia
- JOAN FERRANTE, 1960, Assistant in Italian
A.B., Barnard; A.M., Columbia
- KATHLEEN R. FORTIER, 1959, Assistant in Psychology
A.B., Barnard
- CLAIRE FRIEDMAN, 1961, Instructor in Mathematics
D.Phil., Oxford
- SERGE GAVRONSKY, 1960, Lecturer in French
A.B., A.M., Columbia
- RENÉE GEEN, 1956, Instructor in French
A.B., Brooklyn; A.M., Wisconsin
- SANDRA GENTER, 1961, Instructor in Physical Education
A.B., Wisconsin
- EVA W. GRAY, 1959, Instructor in Mathematics
Ph.D., Zurich
- MARGARET HANCE, 1955, Assistant in English
A.B., Wittenberg
- FREDERICK W. HEGGE, 1960, Assistant in Psychology
A.B., Hofstra
- ANTOINETTE NOEL HOFFHERR, 1950, Lecturer in French
Bach., Sorbonne; A.B., Ohio Wesleyan; A.M., Ohio State
- URSULA LIEBRECHT JARVIS, Instructor in German
A.B., Barnard; A.M., Columbia
- SUZANNE M. JAVITT, 1959, Assistant in Chemistry
A.B., Barnard; A.M., Columbia
- LOUISE JEFFERSON, 1961, Lecturer in French
A.B., Hunter; A.M., Illinois
- EARL W. JENNISON, JR., 1960, Lecturer in History
A.B., Union; A.M., Columbia
- LYDIA W. KESICH, 1959, Lecturer in Russian
A.B., Vassar; A.M., Columbia
- JIMMYE ELIZABETH KIMMEY, 1956, Instructor in Government
A.B., Texas; A.M., Columbia

THE FACULTY

- GRACE W. KING, 1960, Lecturer in Chemistry
A.B., Maine; A.M., Columbia
- SAMUEL Z. KLAUSNER, 1961, Lecturer in Religion
B.S., New York; A.M., Ed.D., Columbia
- MARCUS KLEIN, 1952, Instructor in English
A.B., Western Reserve; A.M., Columbia
- BERNICE J. KRAMER, 1960, Assistant in Art History
A.B., Barnard
- JANE LANCASTER, 1954, Instructor in Geology
A.B., Barnard; A.M., Columbia
- MARIAN S. MARKOW, 1960, Assistant in Government
A.B., Barnard
- JACQUELINE R. MARKS, 1960, Assistant in Psychology
A.B., Barnard
- EDITH G. MASON, 1956, Associate in Physical Education
B.S., Winthrop; M.S., Louisiana State
- JOSEPHINE MAYER, 1956, Associate in Education and
Director of the Teaching Programs
B.S., A.M., Columbia
- MARK S. MAYZNER, 1960, Lecturer in Psychology
A.B., A.M., Ph.D., New York
- STANLEY MOORE, 1960, Lecturer in Philosophy
A.B., Ph.D., California
- JOANN RYAN MORSE, 1957, Instructor in English
A.B., Vassar; A.M., Yale
- CHARLOTTE W. MUNDY, 1958, Instructor in Education
A.B., Wisconsin; A.M., Columbia
- ¹INEZ G. NELBACH, 1948, Associate in English
A.B., Barnard; A.M., Columbia
- JAMES R. O'CONNOR, 1958, Instructor in Economics
B.S., Columbia
- ROBERT PACK, 1957, Associate in Poetry
A.B., Dartmouth; A.M., Columbia
- ANDREA PENKOWER, 1960, Assistant in Psychology
A.B., Barnard

¹ Absent on leave, Spring Term.

BARNARD COLLEGE

MARION R. PHILIPS, 1945-55; 1958, Instructor in Physical Education
A.B., Hunter; A.M., Columbia

ANNE LAKE PRESCOTT, 1959, Assistant in English
A.B., Barnard

LUCÍA G. PROODIAN, 1960, Lecturer in Spanish
Ph.D., Madrid

BARBARA STREET RAY, 1958, Assistant in Psychology
A.B., Barnard

ELECTA A. RODRÍGUEZ, 1960, Instructor in Spanish
A.B., Barnard; A.M., Columbia

CAROL ROSENBLATT, 1960, Assistant in Economics
A.B., Barnard

FULTON ROSS, 1960, Lecturer in English
A.B., A.M., Iowa

GERTRUD M. SAKRAWA, 1952, Associate in German
A.M., Columbia; Ph.D., Vienna

JEANNE SCHNEEBAUM, 1960, Assistant in Zoology
A.B., New York

BERNICE SEGAL, 1958, Lecturer in Chemistry
A.B., Radcliffe; Ph.D., Columbia

ELIZABETH STABLER, 1959, Lecturer in Government
A.B., Barnard; M.I.A., Columbia

PATRICIA TERRY, 1958, Lecturer in French
A.B., Wellesley; A.M., Ph.D., Columbia

ZOYA A. TRIFUNOVICH, 1959, Lecturer in Russian
B.S., Columbia

GEORGE WOODBRIDGE, 1960, Lecturer in History
Ph.D., Wisconsin

OFFICERS OF ADMINISTRATION

MILLICENT CAREY MC INTOSH, Ph.D., LL.D., Litt.D., L.H.D.
President of Barnard College and Dean in the University

HENRY A. BOORSE, Ph.D. Dean of the Faculty and Professor of Physics

HELEN PHELPS BAILEY, Ph.D.
Dean of Studies and Associate Professor of French

MARIANNA BYRAM, A.M. Acting Associate Dean of Studies and
Assistant Professor of Art History

JEAN T. PALMER, A.B. General Secretary

FORREST L. ABBOTT, Ed.D. Treasurer and Controller

OFFICE OF THE PRESIDENT

DOROTHY H. HEFFERLINE, A.M. Executive Secretary

OFFICE OF THE DEANS

LAURA R. GARCÍA-LORCA, Ph.D. Adviser to the Class of 1964

BARBARA LOU FRIEDMAN, A.B. Adviser to the Class of 1964

TATIANA GREENE, Ph.D. Adviser to the Class of 1965

JIMMYE ELIZABETH KIMMEY, A.M. Adviser to the Class of 1965

DOROTHY E. FOX, A.B.
Adviser to Foreign Students and Assistant to the Dean of the
Faculty

ADMISSIONS

HELEN M. MC CANN, A.B. Director

MARGARET DYKES DAYTON, A.M. Associate Director

ASSOCIATE ALUMNAE

MARY A. BLISS, A.B. Executive Secretary

BURSAR

FRANCES A. BARRY, M.S. Bursar

BARNARD COLLEGE

CHAPLAIN OF THE UNIVERSITY

JOHN M. KRUMM, Ph.D., B.D.

COLLEGE ACTIVITIES

KATHERINE R. GOODWIN, B.S. Director

DEVELOPMENT OFFICE

JEAN T. PALMER, A.B. Director

DOROTHY COYNE WEINBERGER, A.B. Secretary for Annual Giving

ELIZABETH LOWE, A.B. Secretary for Parents' Program

FOOD SERVICES

ELEANOR R. SMITH, B.S. Director

HEALTH

MARJORY J. NELSON, M.D. College Physician

J. FREDERICK BEINEKE, M.D. Consulting Psychiatrist

A. LOUISE BRUSH, M.D. Consulting Psychiatrist

LELA ANDERSON, R.N. Nurse

BEATRICE G. TUCKER, R.N. Nurse

University Medical Officer

LIBRARY

ESTHER GREENE, A.B., B.S. Librarian

THUSNELDA BRETTMAN Assistant Librarian

SARAH KATHARINE THOMSON, M.S. Reference Librarian

NATALIE SONEVYTSKY, M.S. Assistant Reference Librarian

MARY J. KELLY, M.S. Order Librarian

HELEN ADLER, M.S. Reserve Librarian

WILLIAM D. EPPES, B.S., A.M. Assistant Reference and
Circulation Librarian

MAINTENANCE AND OPERATION

JOHN KIESSLING Manager

PLACEMENT

ETHEL S. PALEY, A.B. Director

LEONORE POCKMAN, A.B. Assistant Director

OFFICERS OF ADMINISTRATION

PUBLIC RELATIONS

BETTY PEZZONI, A.B.	Director
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PURCHASING

MARY BANE	Manager
-----------	---------

REGISTRAR

HELEN LAW, A.B.	Registrar
-----------------	-----------

RESIDENCE

JANE SHIPTON, A.M.	Director
--------------------	----------

II. College Calendar

Sept.	15	Friday. Final payments due, Autumn Term.
Sept.	22	Friday. Language placement tests for freshmen and transfers. Hygiene test for transfers.
Sept.	25	Monday. English proficiency test for transfers.
Sept.	25	Monday, through Sept. 27, Wednesday. Deficiency examinations. Registration in person for Autumn term.
Sept.	28	Thursday. Autumn Term, seventy-third year begins. Classes begin, 9 a.m. Convocation, 1 p.m.
Nov.	7	Tuesday. Election Day. Holiday.
Nov.	21	Tuesday. Annual Thanksgiving Service in St. Paul's Chapel.
Nov.	23	Thursday, through Nov. 26, Sunday. Thanksgiving holidays.
Dec.	7	Thursday. Required meetings for planning programs.
Dec.	22	Friday. Last day for filing statement of candidacy for the degree in February 1962.
Dec.	23	Saturday, through January 7, 1962, Sunday. Christmas holidays. Residence halls closed.
Jan.	14	Sunday. Annual Commemoration Service in St. Paul's Chapel.
Jan.	15	Monday. Final payments due, Spring Term.
Jan.	22	Monday. Mid-year examinations begin.
Feb.	1	Thursday. Autumn Term ends.
Feb.	2	Friday. Language placement tests.
Feb.	5	Monday and Feb. 6, Tuesday. Registration in person for Spring Term.
Feb.	7	Wednesday. Spring Term begins. Classes begin, 9 a.m.
Feb.	9	Friday. Last day for filing applications for non-competitive scholarships, grants-in-aid, and residence grants.
Feb.	22	Thursday. Washington's Birthday. Not a College holiday.
Mar.	16	Friday. Last day for filing statement of candidacy for the degree in June 1962.
Mar.	31	Saturday, through April 8, Sunday. Spring holidays.
Apr.	12	Thursday. Required meetings for planning programs.
May	18	Friday. Last day for filing statement of candidacy for the degree in October 1962.
May	21	Monday. Final examinations begin.
May	30	Wednesday. Memorial Day. Holiday, except for examinations.
May	31	Thursday. Spring Term ends.
June	3	Sunday. Baccalaureate Service.
June	5	Tuesday. Conferring of degrees.
July	2	Monday. Sixty-third Summer Session of Columbia University begins.
Aug.	10	Friday. Sixty-third Summer Session ends.
Sept.	27	Thursday. Autumn Term, seventy-fourth year begins. Classes begin 9 a.m. Convocation, 1 p.m.

SEPTEMBER, 1961

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CALENDAR

FOR 1961-1962

OCTOBER, 1961

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FEBRUARY, 1962

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JUNE, 1962

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NOVEMBER, 1961

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MARCH, 1962

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JULY, 1962

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DECEMBER, 1961

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APRIL, 1962

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AUGUST, 1962

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JANUARY, 1962

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MAY, 1962

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SEPTEMBER, 1962

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III. An Introduction to the College

BARNARD'S HISTORY

Barnard College was among the pioneers in the crusade, waged so ardently in the late nineteenth century, to make higher education available to young women. The history of its achievement is an integral part of the history of Columbia University.

The University had its origin in the royal charter granted by George II in 1754 to the Governors of the College of the Province of New York, creating them a Body Corporate to erect and maintain King's College "for the Instruction and Education of Youth in the Learned Languages and Liberal Arts and Sciences." The Revolutionary War interrupted its active work when its buildings were requisitioned by the Continental Armies, but in 1784 it was re-opened as Columbia College. In 1896 it was designated a university, and in 1912 its title was legally changed to Columbia University in the City of New York.

Barnard College had its inception in an idea, proposed in 1879 to the Trustees of Columbia by its tenth president, Frederick A. P. Barnard. It was his conviction that "in the interests of society the mental culture of women should be not inferior in character to that of men," and that young women should, therefore, be admitted to Columbia College. This thought which "failed to attract the serious attention of the Trustees," was, nevertheless, rigorously developed by President Barnard, and in 1883 a petition signed by over a thousand citizens of New York culminated in the inauguration of the "Collegiate Course for Women." Women who passed "a very strict entrance examination" were authorized to follow a prescribed course, but were left "entirely free as to where or how to carry on [their] studies, whether in some school, private or public, or at home, or under the auspices or direction of any association interested in [their] welfare and advancement." "Suitable academic honors and distinctions" were awarded to those who on examination were found to have pursued such courses with success. This system was destined to please no one, neither the young women whose search for instruction was made so difficult, nor Columbia College whose degree could thus be conferred on the strength of examinations only. Six years later when Certain Friends of the Higher Education of Women presented still another proposal to Columbia's Trustees, cooperation was obtained for the establishment of an affiliated college for women. A provisional charter was granted by the State of New York,

AN INTRODUCTION TO THE COLLEGE

promise of funds for the first four years was secured, and its name, in honor of its most prophetic and persistent advocate, was chosen.

In October, 1889, the first class of Barnard College met in a rented "brownstone" house at 343 Madison Avenue with fourteen students enrolled in the School of Arts and twenty-two students in science, who, lacking the entrance requirement in Greek, were known as "specials." Six members of Columbia's staff gave instruction in prescribed subjects: English, French or German, Greek, Latin, and mathematics. A fellow of the University of Pennsylvania, Dr. Emily Gregory, volunteered her services as botanist, and Columbia's sanction of this role was soon bestowed by her appointment as its first woman lecturer.

Nine years later Barnard moved to its present site on Morningside Heights, and in 1900 it was incorporated in the educational system of Columbia University with provisions which at that time were unique among women's colleges: it was to be governed by its own Trustees, Faculty, and Dean; it was responsible for its own endowment and plant; it shared the instruction, the library, and the degrees of a university.

BARNARD TODAY

Barnard today presents rewarding contrast to the pioneer days. The teaching staff of six has grown to more than 200 men and women, some of them members of the University Faculties and some coming to the classrooms from the world of literature, the theatre, and the arts. From the original fourteen matriculated students, enrollment has increased to over 1400, and since 1893 Columbia has awarded its degree to 12,300 Barnard students. Pledges of support for the first college generation have expanded to current endowment funds of \$10,586,000.

Within the University Barnard's corporate identity is maintained as an independent college for women. The curriculum offers the undergraduate opportunity to cultivate the liberal arts, to explore her cultural heritage, to discover and develop her capacity for intellectual adventure, and to establish habits of thought whereby she may utilize her knowledge in all facets of her future life. Specific requirements for the degree are designed to give some comprehension of the roots of our civilization, and an awareness of the diverse areas of human thought and their interrelationship: courses in humanities enlarge the student's contact with literature and such fields as philosophy, religion, music and fine arts; a year's work in history is required as well as courses which deal with some phase of contemporary society; acquaintance with the ideas and methods of both physical and biological science is considered essential for an informed person in the modern world; finally, compe-

BARNARD COLLEGE

tence in at least one foreign language, to serve as an instrument for understanding and evaluating the achievements of other nationalities and as a basis for communication with peoples whose history and traditions may differ from our own. This comprises the basic curriculum of each student. Assistance in planning her individual course of study is given by her class adviser, a member of the teaching staff who supervises the work of the freshman and sophomore years.

At the end of this period each student chooses her major field. During the junior and senior years her major adviser guides advanced study in the area of concentration and all other phases of the college work. A major is offered by every department and there are interdepartmental majors in interrelated fields.

Classes vary in size. Language classes are small as are other courses in which student participation is important. All introductory courses and classes taught primarily by the lecture method are divided into small groups for conference and discussion. Some undergraduate courses are held with Columbia College and the Departments of Greek and Latin, Italian, Mathematics, Music, Physics, and Religion are conducted jointly with the University. Graduate courses are also open to qualified upper classmen.

THE CAMPUS

The campus now occupies four acres of land adjacent to Columbia between 116th and 120th Streets. The residence halls, Brooks and Hewitt, and Helen Reid Hall to be opened in the autumn of 1961, face an open quadrangle. Milbank Hall at the northern end of the campus contains administrative offices and classrooms, the laboratories and libraries of the natural sciences, a greenhouse for the use of botany students, penthouse studios and practice rooms for music, and the Minor Latham Drama Workshop, where drama students and dramatics groups may use the equipment of a modern theatre. The French, German, and Spanish Departments in Milbank Hall have social and reading rooms, furnished by friends of the College with valuable paintings, music records, and books. In Barnard Hall are the gymnasium, the swimming pool and dance studios, English seminar and classrooms, a spacious social center known as the James Room, and the Annex with a lounge and snack bar and quarters for student organizations.

Adele Lehman Hall, the new five-story building containing the Wollman Library and classrooms, was opened in the autumn of 1959. The Library was designed to provide expanded reference, periodical, and reserve book services and to permit greater opportunities for inde-

AN INTRODUCTION TO THE COLLEGE

pendent work in advanced courses. It has a record collection with ample listening facilities, an audio-visual room, and an art history room for the study of photographs and art reproductions. The open-shelf arrangement, occupying three and a half floors, has a capacity of 150,000 volumes, and undergraduates have access also to the 3,000,000 volumes in the University libraries. Carrels are provided for individual study and there are small rooms for typing and for group discussion. Offices and seminars of the social science departments and classrooms occupy the top floor. A thirty-booth language laboratory on the ground floor is utilized by all language departments and by students of English speech.

STUDENT LIFE

Barnard's student population is cosmopolitan in nature. Two thirds of its students live within commuting distance; the remaining third come from nearly every state in the Union and some twenty-five foreign countries. All represent diversity in background and training, a mingling of economic, regional, and cultural strains which find expression in the life of the campus.

The Undergraduate Association, of which all students are members, sponsors extra-curricular activities reflecting the current interests of the entire group: the college newspaper, the literary magazine, dramatics clubs, political and religious clubs, the pre-medical club, and clubs representing many departmental fields. Students from Barnard and Columbia jointly plan the social program of the two colleges, which invites membership in the University Chorus and Orchestra, Barnard's Gilbert and Sullivan Society, and the staff of the University radio station.

The freshman and sophomore festival, Greek Games, is presented in the spring. Themes from classical mythology are portrayed in original dance, music and verse, and an athletic contest is climaxed by a chariot race in which class teams of four "horses" compete in exciting style.

In the college community the Undergraduate Association takes wide responsibility and its members serve on important Faculty-Student committees. All students are automatically under the jurisdiction of the Honor Code, administered by the Honor Board of the Association, whereby a high standard of honor in examinations and all other phases of college life is maintained.

Religious organizations and activities, with headquarters on the Columbia campus in Earl Hall, are open to all students. The Thursday Noon Meeting at Barnard provides a weekly forum for discussion of contemporary religious and philosophical thought by faculty and guest speak-

BARNARD COLLEGE

ers and students. The devotional life of College and University is centered in St. Paul's Chapel, where week-day and Sunday services are held at which attendance is voluntary. Through the cooperation of the Chaplain and counselors of various faiths a unity of religious life is secured within the University, while within each faith its own traditions are maintained.

The Athletic Association sponsors many campus activities, such as tennis, basket-ball, water ballet, fencing, and modern dance. Intercollegiate Sports Days held throughout the year enable students to participate in athletic events with other colleges. In 1933 the Barnard Camp, twenty acres of wooded land in Westchester County, was purchased by the alumnae, providing an accessible site for recreation during country week-ends.

NEW YORK IS BARNARD'S LABORATORY

Fifty years ago Nicholas Murray Butler, one of Columbia's great presidents, observed, "New York is intensely cosmopolitan and contact with its life for a short time during the impressionableness of youth is in itself a liberal education." The city is an extension of the campus, utilized by every department to narrow the gap between learning and living. Barnard is a university college in an international city, and today the curriculum affirms and encourages precise and graphic use of its vast metropolitan laboratory.

IV. Admission

The Committee on Admissions selects for Barnard those candidates who show evidence of intellectual ability, sound character, and good health. Along with the past record of academic achievement, promise of good citizenship is important. In addition, the College believes it desirable that the college experience be shared by students representing a wide variety of schools, many parts of the United States, and foreign countries.

Candidates wishing to talk over their plans may arrange with the Office of Admissions for an interview at the College in the fall of their senior year at secondary school or during their junior year, except during the period from April 1 to June 1. Whenever possible, the Office of Admissions will be glad to arrange interviews with alumnae for those students who are unable to visit the College.

ADMISSION TO THE FRESHMAN CLASS

Application for admission to the freshman class should be made before January 15 of the year of entrance. It is more desirable, however, to apply by the end of the junior year or the fall of the senior year. Application forms may be obtained by writing to the Director of Admissions.

A non-refundable fee of \$15 must accompany each application.

Students are admitted to the freshman class in September of each academic year. They should be at least fifteen years of age. They must present the following credentials:

- 1) Evidence of good character, which is obtained from confidential reports from the applicant's secondary school principal and teachers and, if possible, through a personal interview with a member of the staff of the Office of Admissions.
- 2) Evidence of sound health, which should be submitted as soon as the applicant has been accepted, on forms provided by the Office of Admissions.
- 3) Evidence of intellectual ability and achievement, which is reported by the secondary school to the College, and is also demonstrated by the required College Entrance Examination Board tests.

Specifically, a candidate for admission should be a graduate of an approved secondary school or should have equivalent education representing a four-year course of study. Academic requirements for admission are based on the requirements for the A.B., or liberal arts, degree. The secondary school course of study should include, therefore, four

BARNARD COLLEGE

years of work in English, three years in one foreign language and two in another, and college preparatory mathematics studied for two years. The remainder of the course should consist of work in history, science, mathematics, music, art, or additional work in language. For pre-medical students advanced work in science, mathematics and German is advised. Pre-engineering students should offer three years of social studies, two years of French or German, mathematics through solid geometry and trigonometry, physics and chemistry.

The Committee on Admissions is willing to consider the applications of students whose preparation may vary from the usual pattern but whose records give evidence of genuine intellectual ability and interest.

Every candidate for admission to the freshman class is required to take the College Entrance Examination Board Scholastic Aptitude Test and three Scholastic Achievement Tests. The latter must be taken in (1) English composition, (2) a foreign language, and (3) social studies, science or mathematics. The Scholastic Aptitude Test should be taken in January or March of the senior year in high school. Achievement Tests in continuing subjects (English, foreign languages, mathematics, etc.) should be taken in January or March of the senior year. Achievement Tests in one-year subjects or those completed in the junior year may be taken in May of the junior year. January graduates may take the College Board tests in December of their senior year. If the Scholastic Aptitude Test is taken for guidance purposes in the junior year, the scores should be reported to the College.

Barnard also requires the preparation of the Writing Sample at the December, the January, or the March administration of the College Entrance Examination Board Tests. As evidence of her ability to write English clearly and accurately, the candidate will be asked to write an essay on a topic which will be assigned at that time by the Board. The candidate should apply to the College Board.

EARLY DECISION PLAN

In order to alleviate some of the problems arising from multiple applications, Barnard, with the other members of the Seven College Conference, agreed, beginning with the class entering in September, 1959, to take action in the fall of the senior year on the applications of well-qualified students who have made their choice of a college by that time. Students wishing to apply under this early decision plan must be certified by their schools as having filed only one application.

Single-choice candidates for Barnard admission in September, 1962, should send their application to the Office of Admissions, Barnard College, New York 27, before October 15 of the senior year. Applications must be accompanied by the \$15 application fee.

Early in December Barnard will send to all single-choice applicants letters of admission, rejection, or, in doubtful cases, of postponement of decision until the regular date in the spring. Each applicant will be considered on the basis of (1) the recommendation of her school principal or guidance counselor; (2) her three-year record at school; and (3) the results of the required College Board Scholastic Aptitude Test and the Scholastic Achievement Tests taken in the junior year. Early decision candidates will be expected to prepare the Writing Sample in December.

The admitted candidate will be expected to complete her senior year at school satisfactorily and to submit a record of that year's work. She will not be asked to repeat any College Board examinations. She will agree to pay to Barnard in February, 1962, a deposit of \$100 if she is to be a non-resident student, and \$150 if she is to be a resident student, to hold her place in the freshman class.

The candidate on whose application decision has been postponed will be given full and careful consideration in the spring. She will be asked to submit a record of her school work for the first half of her senior year, with the results of senior College Board Scholastic Aptitude and Achievement Tests as additional evidence.

Those candidates on whose applications favorable action has not been taken may file applications at other colleges on receiving the December notice from Barnard.

THE COLLEGE ENTRANCE EXAMINATION BOARD TESTS

The College Entrance Examination Board will administer the following series of tests in 1961-62.

Saturday, December 2, 1961¹

Saturday, January 13, 1962¹

Saturday, March 3, 1962¹

Saturday, May 19, 1962

Wednesday, August 8, 1962

Candidates should write directly to the College Entrance Examination Board, Box 592, Princeton, New Jersey, for the Bulletin of Information containing descriptions of the Scholastic Aptitude and Achievement Tests, directions for filing applications, and lists of examination centers. When requesting the application forms, candidates should state the month in which they wish to take the tests.

Residents of California, Oregon, Washington, Idaho, Montana, Wyoming, Utah, Colorado, Nevada, Arizona, New Mexico, Alaska, Hawaii, Australia, Mexico, and the Pacific Islands should write to the Pacific Coast Office of the Board, Box 27896, Los Angeles 27, California.

¹ The Writing Sample will be administered on these dates.

BARNARD COLLEGE

In order to facilitate the arrangements for the conduct of the tests, all applications should be filed as early as possible. The normal closing date for the receipt of applications in Princeton, New Jersey, or Los Angeles, California, for candidates outside the United States, Hawaii, the Canal Zone, Canada, Mexico, and the West Indies is two months before the date of the examination; for all other candidates the closing date is four weeks before the date of the examination. A penalty fee of \$3 to accompany the application will be charged for applications received later than the normal closing date.

No applications received in Princeton or Los Angeles later than two weeks before the examination date will be considered. Candidates may not register for the tests at the examination centers. Each application should be accompanied by the appropriate examination fee:

Scholastic Aptitude Test alone.....	\$ 6.00
One, two, or three Achievement Tests.....	9.00

The Board will report the results of the tests to the institutions indicated on the candidates' applications. The colleges, in turn, will notify the candidates of the action taken on their applications for admission. Candidates will not receive reports of their tests from the Board.

ADMISSION WITH ADVANCED PLACEMENT

Barnard's program of advanced placement enables freshmen to register for courses normally not open to them if they can provide evidence, such as satisfactory performance on the College Board Advanced Placement Test, that they are prepared for advanced work at Barnard. Such evidence is evaluated by the department concerned. In some cases, students may be awarded up to six points of academic credit for work completed in secondary school.

ADMISSION TO ADVANCED STANDING

Candidates are admitted to advanced standing in September and February. They should have satisfactorily completed at least one year of work at an acceptable college or foreign institution of equivalent grade. In general, a candidate with a good record, transferring to Barnard from an institution of equal standing, will receive at Barnard a year's credit for a year's work at the institution from which she enters. (See also page 31.)

The student should submit with her formal application the following credentials: her secondary school record; a recommendation from her principal and her college dean or class adviser; a complete and official transcript of her college work and a copy of the college catalogue in

which the courses she has taken are clearly marked; the results of the College Entrance Examination Board tests she has taken. A candidate for admission will be asked to take the College Entrance Examination Board Scholastic Aptitude Test if she has not already done so. No definite credit for junior college work can be assigned until the student has had an opportunity to establish a satisfactory record at Barnard.

In all cases, final action on admission depends upon the receipt of a statement of honorable dismissal, which is a certificate of good character from an authorized representative of her college, and the required health reports.

Application for admission to advanced standing should be submitted before July 1 for admission in September and before December 1 for admission in February. All credentials should be in the hands of the Committee on Admissions by September 15; otherwise, the student may be asked to postpone registration until after classes begin, thereby incurring an additional fee of \$15 for lateness.

Seniors who are degree candidates of other colleges may apply for permission to complete their requirements at Barnard. Applicants must present satisfactory college records and letters of approval from their Deans. All students are expected to comply with the Barnard regulations concerning attendance and course examinations.

ADMISSION OF FOREIGN STUDENTS

Foreign students are expected to take the Scholastic Aptitude Test given by the College Entrance Examination Board, if it is possible for them to arrange to do so. Requests for the establishment of overseas centers should reach the Board two months prior to the examination dates listed on the previous pages. Students whose native language is not English must in addition present official evidence of their proficiency in English.

All foreign students must take English placement tests in writing, aural comprehension, and speech during the week of registration in September or in February. Failure to pass these tests will necessitate remedial courses in English at Columbia University, either without academic credit or with limited credit, depending on the level of the course and the grade obtained.

For information concerning the Medical Expense Policy which is obligatory for foreign students whose home is outside the United States, please see page 164.

Candidates are urged to communicate with the Director of Admissions well in advance of the date they wish to enter, so that the College may be of assistance to them in making their plans.

BARNARD COLLEGE

ADMISSION AS SPECIAL STUDENTS

Mature students who wish to pursue serious study at an advanced level, without working for a degree, may in some cases be admitted for one year as non-matriculated students. They must submit evidence of good character and proof that they are qualified scholastically to take the courses of their choice. Students who wish to remain as special students for more than one year must receive permission to do so from the Committee on Instruction, and must maintain an academic standing of at least 2.00 (C).

Special students are governed by the same attendance, course examination, health, proficiency and deficiency regulations as matriculated students. They are entitled to a formal statement testifying to the courses they have taken. If they satisfactorily complete thirty points of work, they may apply for transfer to a matriculated basis as candidates for a degree.

RE-ADMISSION

A student who has withdrawn from the College, or who has been on leave of absence, is not automatically re-admitted. She should make application for re-admission to the Director of Admissions. A non-refundable fee of \$15 must accompany the application. Credentials are due by December 1 for the spring term, and by May 1 for the autumn term.



Jack Mitchell

LISTENING AREA FOR THE MUSIC, POETRY, AND DRAMA RECORD COLLECTION



Jack Mitchell

THE PERIODICAL READING AREA IN THE WOLLMAN LIBRARY



The New York Times

A SPRING SEMESTER CLASS MEETS ON THE MILBANK LAWN

A ZOOLOGY LABORATORY

Jack Mitchell



INDIVIDUAL STUDY DESKS IN THE WOLLMAN LIBRARY

Jack Mitchell





Vladimir Sladon

A STUDENT PRODUCTION OF GILBERT AND SULLIVAN'S "THE GONDOLIERS"

Jack Mitchell



FOREIGN LANGUAGES AND
ENGLISH VOICE AND DIC-
TION ARE PRACTICED IN THE
LEHMAN LANGUAGE LABO-
RATORY



BARNARD AND CO-
LUMBIA STUDENTS
GATHER AT THE
PIANO IN THE
LIVING ROOM OF
BROOKS HALL

Jack Mitchell

STUDENTS COME
TO BARNARD COL-
LEGE FROM ALL
OVER THE WORLD





Jack Mitchell

GREEK GAMES ARE AN ANNUAL FRESHMAN-SOPHOMORE COMPETITION



Henri Dauman

SENIORS MARCH FROM THE BARNARD
CAMPUS TO COLUMBIA UNIVERSITY FOR
COMMENCEMENT EXERCISES



V. Degree Requirements

ACADEMIC REQUIREMENTS FOR THE A.B. DEGREE

Requirements for the Bachelor of Arts degree serve as a framework for the acquisition of knowledge of the various fields of human thought, and have been planned to secure for the student a sound foundation in the liberal arts and sciences on which to base intensive work in the sphere of her special interest. These requirements call for the completion of 120 points (a point is considered to be the equivalent of fifty minutes of class work a week and two hours of preparation) and include the following:

I. English A1—A2. (6 points).

The introductory course, Reading and Writing. (Foreign students please refer to page 27.)

II. Foreign Languages

(a) Competence in one foreign language. This requirement may be fulfilled in two ways, either by passing with a sufficiently high score a placement examination, or by satisfactory completion of a designated course. (See the statement under the appropriate language department for further details.)

(b) One full-year course in a second foreign language, unless the student has had the equivalent (two years) in high school. It is advisable to postpone this until the first part of the requirement (a) has been satisfied.

III. Humanities (12 points, or 10 points if Art History 1—2 is elected without laboratory).

(a) Literature: One full-year course (6 points) to be studied in the language in which it was written originally, normally the six points to be taken in the same language.

(b) Six points in art history (or four points if Art History 1—2 is taken without laboratory); literature (in the original or in translation); music; philosophy; religion.

IV. Social Sciences (12 points).

(a) History (6 points).

European: 1—2

American: 9—10; 33—34; 45—46; 55—56

BARNARD COLLEGE

(b) Contemporary Society (6 points).

Anthropology 1, 2

Economics 1–2; 19; 31

Geography 3, 4; 12; 15E; 15W

Government 1, 2 (both terms); 8; 9; 10; 11; 12

Psychology 37

Religion 25, 26

Sociology 1–2

Unless both terms are indicated, any combination of these courses may be made.

V. Natural Sciences (14–16 points).

Two full-year courses, one of which must include laboratory work (8-10 points). The sciences are divided into two areas. Both areas must be represented, unless mathematics (6 points) is elected to fulfill the non-laboratory science requirement.

Physical

Chemistry

Physical geography

Geology

Physics

Biological

Anthropology (human evolution)

Botany

Experimental psychology

Zoology

VI. Hygiene (2 points).

VII. A major field to be selected before the end of the sophomore year, consisting of not less than 28 points of prescribed work. Each department requires, as specified, either a senior thesis or a major examination. A major may be chosen in any one field, or in such combinations as are approved by the Committee on Instruction. Transfer students are required to take a minimum of 18 points in their major at Barnard.

VIII. Electives: To be chosen in accordance with the interests and objectives of the student (40 to 44 points).

IX. Physical Education (required through the junior year).

Students' programs are planned with the advice of the Class and Major Advisers and are filed on dates announced by the College (see page 33.)

MAJOR FIELD REQUIREMENTS

In addition to the 28 points of course work prescribed, each department requires special work to coordinate the student's knowledge in

DEGREE REQUIREMENTS

the major field. The exact nature of these requirements varies with the subject matter and the department's conception of the best method of mastering it. In some, a major examination must be taken; in others, a senior thesis must be written or a senior seminar successfully completed. Specific departmental requirements are listed in the appropriate statements, beginning on page 44. At the end of the sophomore year each student chooses her Major Adviser, with whom she plans all subsequent work in her area of concentration.

CREDIT

All requirements must be completed within six years from the student's matriculation as a freshman at Barnard or elsewhere; within four-and-a-half years from matriculation as a sophomore; three years from matriculation as a junior; and a year and a half from matriculation as a senior.

Fifteen of the points of the senior year must be taken at Barnard except by special permission of the Committee on Instruction. Normally, such permission is granted to students who have spent no less than two years at Barnard; whose scholastic standing is above average; and who present a well-planned program approved by the major department.

In order to be recommended for the degree a student must maintain a cumulative average of 2.00 (C) for her entire course and for her senior year specifically. (See Grading System, page 37.)

REQUIREMENTS FOR TRANSFER STUDENTS

Before registration an estimate of credit is sent to students transferring from other colleges as a guide to the required work to be completed at Barnard. The student in conference with her advisers determines her program of work, taking into account her previous academic record and future plans. The following restrictions should be noted:

All transfer students are required to take the English proficiency test during the registration period. Any student who has had an introductory course comparable to English A1-A2 is allowed to fulfill the English requirement by offering this course from another college, provided she passes the proficiency test. Others are assigned either to English 1, 2 or to other English courses suited to their needs.

Transfer students are also required to take a language placement test before registration. They will be assigned to the course which the results of the test indicate they are prepared to take. A high score on the placement test will give exemption from the language requirement. On the other hand, should the student be placed in a language course lower than one she has already passed at her former college, she will lose credit for the introductory work. Transfer work in literature, of a

BARNARD COLLEGE

level comparable to courses offered by the Barnard College language departments, will be counted as elective credit and may be used to satisfy the *literature* requirement, even though the student may be required to take additional work in the language in order to complete the *language* requirement.

All transfers are required to take the hygiene exemption test during the registration period. Those who do not pass the test must take Hygiene 1 (see page 104) during the autumn term.

A maximum of 32 points towards the Barnard degree is allowed for one year's work elsewhere. Sixty of the points to be counted towards the degree must be taken at Barnard, as well as a minimum of 18 points in the major field. Not more than 6 points of work of D grade done elsewhere may be counted towards the Barnard degree.

VI. General Information

REGISTRATION

Prior to registration incoming students discuss their programs with their Class Adviser. For freshmen individual appointments are made during September, and for transfer students they are planned for the four days preceding the opening of college. Class advisers for the freshman and sophomore years are appointed from the teaching staff and are prepared to give information and advice on all matters pertaining to the curriculum. For the year 1961-62 the Class Advisers are:

MRS. TATIANA GREENE	Adviser to the Class of 1965
MISS JIMMYE E. KIMMEY	Adviser to the Class of 1965
MRS. LAURA R. GARCÍA-LORCA	Adviser to the Class of 1964
MISS BARBARA LOU FRIEDMAN	Adviser to the Class of 1964

On Friday and Saturday, September 22 and 23, the freshmen meet together for the first time. The University campus is explored and the varied activities of college life are introduced by upperclassmen and officers of the undergraduate groups.

Registration for all students takes place in the Gymnasium, Barnard Hall, as follows:

Autumn Term

Monday, September 25	Old day students
Tuesday, September 26	Transfers and all resident students (except freshmen)
Wednesday, September 27	Transfers and all freshmen

Spring Term

Monday, February 5	All students (A-L)
Tuesday, February 6	All students (M-Z)

Registration is not complete and classes cannot be attended until all fees, including those for residence, are paid. A fee of \$15 is charged for failure to register on the dates indicated. (See also Payment of Fees, page 162.)

No student will be permitted to register after two weeks from the official opening date of either term.

REGISTRATION IN ABSENTIA

A student who leaves the College to study at another institution with the intention of offering for credit towards the Barnard degree the work

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completed at the other institution, is required to register *in absentia*. (See Fees, p. 160). Registration *in absentia* is allowable for one term or two consecutive terms only. The course of study to be pursued must be approved in advance by the Committee on Programs and Standing.

Students who have been registered *in absentia* during the previous academic year should notify the Office of Admissions of their intention to return by December 1 for the spring term and May 1 for the autumn term. They may complete their registration only after the required health form has been approved by the College Physician.

ACADEMIC DISCIPLINE

The continuance of a student upon the rolls of the University, the receipt of academic credit, graduation, and the conferring of the degree are subject to the disciplinary powers of the University, which is free to cancel any registration if it seems advisable. The authority of the University is vested in the President of the University. With regard to Barnard students it is exercised by the President of Barnard College in all such cases as the President of the University deems proper.

ATTENDANCE

All students are expected to attend classes regularly. Students who absent themselves from classes must expect the quality of their work to be affected, with consequent detriment to their academic standing. Frequent or prolonged absences from the College without a compelling reason such as illness will cause a student to forfeit the right to make up work or take final examinations.

The attendance of freshmen and students who are on probation is subject to special review by the Dean of Studies. Excessive absence in their cases may result in loss of credit from the total number of points for the term without regard to grades in course.

All absences due to illness must be reported on forms available in the office of the College Physician. Illness is considered an excuse for excessive absence only if the student's statement is filed immediately upon her return to college.

Students who are prevented by conscientious scruples from complying with academic requirements on days set apart by their church for religious observance should discuss this problem with their religious counselor and have a statement from him filed in the office of the Dean of Studies.

GENERAL INFORMATION

WITHDRAWAL

A student in good academic standing, not subject to discipline, may withdraw from the College with an honorable discharge. Written notification of withdrawal must be sent to the office of the Registrar. A student under twenty-one years of age must furnish written assent of a parent or guardian. (See Refunds, page 161.)

Requests for leaves of absence should be addressed in writing to the Dean of Studies. A student in good standing may be granted a leave of absence for one term or two consecutive terms only, for personal reasons, *e.g.* health, marriage, financial necessity.

CLASSIFICATION OF STUDENTS

Students are classified as follows:

Freshmen:	those who have completed fewer than 24 points of academic work
Sophomores:	those who have completed 24 points
Juniors:	those who have completed 54 points
Seniors:	those who have completed 86 points
Unclassified:	those who have not yet been assigned definite credit on transfer

Non-matriculated: those who are not candidates for the degree

No matriculated student may change her status to that of non-matriculated student.

CHANGE OF PROGRAM

After the Friday of the second full week of classes of either term:

1. No student will be permitted to add a course or a point to her program.
2. No student will be allowed to drop a course or a point, except at the written request of her instructor, or on the written advice of the College Physician, countersigned in either event by the Dean of Studies.

PROGRAM RESTRICTIONS

Certain restrictions apply to all programs and any variation must have the approval of the Committee on Programs and Standing. The minimum number of points that may be elected each term is 12 and the

BARNARD COLLEGE

maximum 16; the maximum number of courses is five. On any one day no more than four hours of class work may be taken, or more than seven hours of class and laboratory work combined. Students may not elect courses meeting consecutively at 11, 12, and 1 o'clock on the same day; one of these hours must be kept free.

All courses must be elected for the credit value announced. No credit is allowed for a one-hour course unless taken in conjunction with the course which it supplements.

COLUMBIA UNIVERSITY COURSES

Courses in the Faculties of Political Science, Philosophy and Pure Science are open to qualified upper classmen who obtain the approval of the Major Adviser and the Chairman of the Barnard department concerned.

Seniors with high academic standing may apply for permission to count two graduate courses in the major field towards the graduate degree. Those who wish to register for graduate courses to count towards a higher degree must comply with the following conditions:

1. The approval of the Chairman of the Barnard department and the Committee on Programs and Standing must be obtained in advance and filed in the Registrar's office.
2. The student must be in the last term of her senior year.
3. She must be within 12 points of the Bachelor's degree.
4. The points for graduate credit must be over and above those required for the Bachelor's degree.

Columbia College courses not listed in this announcement may be elected, if the approval of the Dean of Columbia College is procured by the Barnard Registrar.

Courses in the School of General Studies may be credited towards the degree, if passed with a grade not lower than C. Fees for General Studies courses (\$40 per point) are paid by the student herself over and above the Barnard tuition, unless she obtains: (1) for a course necessary to her major, (a) a written statement from her Major Adviser that the course is of special importance to her major and that no equivalent course is offered at Barnard, and (b) the approval of the Committee on Programs and Standing.

Teachers College courses may be taken for credit by qualified seniors with the consent of the Dean of Studies and the Registrar of Teachers College. Fees for these courses (\$40 per point) are not included in the regular tuition, but are added to the Barnard bill.

GENERAL INFORMATION

SUMMER STUDY

A student will normally be expected to spend four years completing work for the degree; some credit, however, may be earned in summer school under the following conditions:

The entire summer program must be approved in advance in writing, first by the class adviser (for freshmen and sophomores) or the major adviser (for juniors and seniors), and secondly by the Barnard chairman of the specified departments. Programs must be approved and submitted to the Registrar before the last day of the spring term. Official reports must be filed with the Registrar not later than November 1.

A cumulative average of 2.5 is required of all students who wish to take courses for credit. Any student not on probation may, however, take for credit a course which she failed at Barnard.

Not more than two courses may be elected in any one summer. Courses of less than six weeks' duration are credited only in exceptional cases.

No course with a grade lower than B— will be credited towards the degree. Courses accepted for credit will be entered as Passed; grades will not be included in the student's Barnard average.

GRADING SYSTEM

Academic standing and eligibility for graduation are determined by the quantity and quality of the student's work. The quantity is estimated by the number of points completed. The credit value in points follows each course title, one point as a rule meaning fifty minutes of class work per week and approximately two hours of preparation. (Laboratory courses, studio work, etc., are exceptions.) Quality of work is gauged numerically by a system of credit ratio, which is the ratio of the number of credits received to the number of points elected. A or A— indicates excellent work; B+, B, B—, good; C+, C, C—, fair; D, poor; F, failure, and P, passed without a specific grade. Work in the major field of unusual merit is awarded the grade, Passed with Distinction.

A course is marked Incomplete (Inc) if the instructor has given the student written permission in advance to postpone the submission of required work. The card signifying such permission must be filed with the Registrar by the date indicated on it. The grade for this work automatically becomes F, if not completed within three weeks after the end of the term. Absent (Abs) means absent from the final examination, and Deferred (Def) means that the grade has been deferred because of illness during the examination. WD signifies that the student withdrew from the course without formal notification.

BARNARD COLLEGE

Each point with a mark of $A = 4$ credits; $B = 3$; $C = 2$; $D = 1$; $F = 0$; $WD = 0$. For every plus or minus an adjustment of $+0.3$ or -0.3 is made. The average mark per point is the student's rating and is computed at the end of each term.

In any one year no more than 6 points of D work may be counted, and no more than 24 points of D in the total number of credits. Grades of D are not counted in the major field.

At the end of each term all records are examined. Normally only those students whose cumulative average is 2.00 (C) or above are permitted to remain in college. The continuance in college of students whose work falls below this average depends upon promise of future development and is determined by the Committee on the Academic Standing of Students.

EXAMINATIONS

Examinations are scheduled at the end of each term. For the academic year 1961-62 they will be held on January 22-February 1 inclusive and May 21-31, inclusive.

Deficiency examinations, given in September and March, are open only to those students whose work is satisfactory and who were absent from the regular examinations for reasons of illness, or extreme family emergency. Exceptions to these conditions can be made only by ruling of the Committee on the Academic Standing of Students in individual cases. Examinations missed in January are to be taken the following March or, in cases of prolonged illness, in September of the same year. Those missed in May are to be taken in September of the same year. If a student absents herself without a valid excuse from a final or deficiency examination, she will receive a grade of zero for that examination. A fee of \$5, payable in advance, is charged for each deficiency examination.

A senior who has missed an examination at the end of her last term may apply for a special examination for which the fee is \$10, payable in advance.

QUIZZES

Instructors are not required to give make-ups to those absent from previously announced quizzes. In case an instructor is willing to give a make-up quiz, he is authorized to do so only if the student has submitted a medical certificate of illness approved by the College Physician, or evidence of other extenuating circumstances acceptable to the instructor.

GENERAL INFORMATION

DEGREES

Students are recommended by the Faculty of Barnard College to the Trustees of Columbia University for the degree of Bachelor of Arts. Degrees are granted in June, October, and February. A statement of intention to complete the work for the degree on any one of these dates must be filed with the Registrar at the announced time.

The Faculty confers honors upon students who complete work for the degree with distinction (*cum laude*), with high distinction (*magna cum laude*) and with highest distinction (*summa cum laude*). Departmental honors are awarded to graduates who have done distinguished work in their major fields.

DEAN'S LIST

A Dean's List, which contains the names of students who deserve special mention for superior scholarship, is compiled at the end of each academic year. Announcement of the list is made the following October.

PHI BETA KAPPA

The Barnard section of the Columbia University chapter of Phi Beta Kappa was founded in 1901. Election to the national honor society is a recognition of scholarship and Barnard students of exceptionally high standing are eligible.

ASSEMBLIES

College assemblies and academic meetings at which attendance is obligatory are held on Tuesdays at 1:10 p.m. Assemblies, which are planned by a joint committee of the Faculty and the Undergraduate Association, bring distinguished speakers to the College and provide a forum for the discussion of important topics. Students are required to keep this hour free from other engagements.

HEALTH

The College Physician is responsible for the health of the college community. She is assisted by two consulting psychiatrists and two nurses. Medical examinations at regular intervals are obligatory: December 15 is the final date for seniors for the completion of their examination; May 15 for freshmen and sophomores. Students will not be permitted to register for the succeeding term until they have had this examination.

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Resident students and non-resident students who are not living with their families or with relatives are required to subscribe to the University Medical Plan (see page 163), which includes provision for infirmary care.

All students, both resident and non-resident, must immediately report any illness, however minor, to the Medical Office. If resident students wish to have someone other than the College Physician care for them, their parents must address a request to the College Physician, and send her the name and address of the doctor before registration.

RESIDENCE

There are two dormitories on the Barnard campus, Brooks and Hewitt Halls, and a new building, Helen Reid Hall, which will be opened in September, 1961. Residence facilities for approximately 500 students are provided in these three halls. There are both single and double rooms in all living units. Most freshmen are assigned to double rooms.

The dormitories are under the supervision of the Director of Residence. The Executive Committee of the Residence Students Association, made up of representatives from all units, helps to decide matters relative to student welfare and conduct.

Further information concerning living in residence is available in the Residence Halls Handbook sent to all dormitory students on admission to Barnard.

Since Barnard has residence space available for only one-third of the student body, and since the aim of the overall housing policy is to have as many resident students as possible from different parts of the world, it is impossible to assign rooms to those who are able to commute to the College, or who are carrying a program of less than eleven points. Ordinarily any student not residing with her parents or husband is required to live on the campus, unless she receives special permission to live elsewhere.

Seniors, juniors, and sophomores will be given permission to live off-campus if they meet one of the following requirements:

1. They must be twenty-one years of age or older at the time the application is made.
2. They may live with close relatives.¹ They may live with adults, at least twenty-five years of age or older, residing in an apartment approved by parents.
3. They may live in a supervised residence, in an approved womens' hotel, or have a living-in job registered with the Placement Office.

¹ Close relatives shall be interpreted to mean parents, husbands, grandparents, aunts and uncles, married brother or sister, or brother or sister over twenty-one.

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Freshmen under twenty-one will not be given permission to live off-campus unless with close relatives.¹

Requests for off-campus housing must be submitted to the Director of College Activities before registration. Any change in residence must be reported to the Director of College Activities immediately.

All students living off-campus, unless with relatives, are required to pay an additional medical fee of \$5.00 a term.

A student violating these regulations is subject to suspension from college for a term, or expulsion.

THE PLACEMENT OFFICE

The Placement Office, maintained by the College as a service to alumnae and students, offers assistance in planning for and obtaining full and part-time positions. Through personal interviews and an analysis of interests and experience, its staff helps to guide students and alumnae into occupations that utilize their capabilities to the fullest extent.

The office, which is open twelve months of the year, keeps in close touch with the needs of employers through the hundreds of jobs referred to the College, through professional contacts of faculty and alumnae, and visits to schools and organizations in business and professional fields made by members of the placement staff. In cooperation with the Advisory Vocational Committee of the Associate Alumnae and a student-faculty committee a program of vocational conferences and meetings is offered on the campus, giving students an opportunity to discuss specific fields of work with experts.

The Placement Office obtains jobs for undergraduates both on and off the Barnard campus. Typical jobs include baby-sitting, tutoring, clerical, laboratory, editorial, and sales work. Freshmen are discouraged from undertaking employment, since it is difficult at first to estimate the amount of time that can safely be spared from academic work. After the first year, a student with good health and sound academic standing should be able to carry part-time employment amounting to not more than ten or twelve hours per week. Student earnings during the college year average \$150.

Summer jobs may be obtained through the Placement Office. Approximately seventy per cent of the Barnard students work during the summer and their earnings average about \$350.

¹ Close relatives shall be interpreted to mean parents, husband, grandparents, aunts and uncles, married brother or sister, or brother or sister over twenty-one.

VII. Courses of Instruction

The College reserves the right to withdraw or modify any course or to change the instructors as may be necessary.

Course descriptions will be found in the following pages. Fuller information can be obtained from the chairmen of the departments at registration periods and during the academic year.

Room assignments are printed on separate sheets and distributed during registration.

The credit value of each course is stated numerically in points following the title in all course descriptions.

Autumn term courses are marked by odd numbers, spring term courses by even numbers, year courses by consecutive odd and even numbers. An odd number followed by suffix y indicates a course repeated in the spring term that is ordinarily given in the autumn term. An even number followed by x indicates a course repeated in the autumn term that is ordinarily given in the spring term.

Indivisible courses which run throughout the year are marked with a hyphen between the numerals (History 1-2). No credit is given for work in an indivisible course dropped at mid-year without the written consent of the instructor and the departmental chairman and the approval of the Committee on Programs and Standing.

Divisible courses which run throughout the year are marked with a comma between the numerals (English 1, 2). The first half of such courses may be taken separately. Admission to the second half without completion of the first half is granted only if the written permission of the instructor is obtained.

Courses given at Columbia which are open to Barnard students are indicated by a star (★). An alphabetical prefix designates the division of the University. Prefixes appearing in this announcement are as follows:

- ★C—Columbia College
- ★F—School of General Studies
- ★G—Graduate Faculties
- ★R—Program in the Arts
- ★W—Inter-Faculty

The level of the course in general is indicated as follows:

- 1000-3000 Undergraduate
- 4000-5000 Graduate, open to qualified undergraduates
- 6000-8000 Graduate, normally not open to undergraduates

The symbol x follows the number of a course given in the autumn term; the symbol y follows the number of a spring term course.

COURSES OF INSTRUCTION

Information concerning additional designations may be obtained in the Registrar's office.

Courses are arranged in examination groups to avoid conflicts on the examination schedule. The groups are indicated by boldface numerals following the course title (English Composition, 6 points. [**0**]). Group **0** includes courses which ordinarily do not have set examinations. No student may elect two courses in the same examination group, other than Group **0**, without a written statement from one or the other instructor that a conflict examination will be given. This statement must be filed by the student in the Registrar's office. A complete list of courses by examination groups is given on page 187.

INTERDEPARTMENTAL OFFERINGS

I. AREAS STUDIES

Officer in charge for 1961-62, PROFESSOR ULANOV.

A. Foreign Areas Studies

Based on a foundation of general courses in the social sciences and the command of at least one foreign language, Foreign Areas Studies are designed to enable a student to concentrate on the civilization of some one area or country of the world.

A major in Foreign Areas Studies is available to a limited number of qualified students whose applications are approved by the committee in charge. Freshmen and sophomores anticipating such a major should consult their advisers and Professor Ulanov as soon as possible.

A student who wishes to major in Foreign Areas Studies must satisfy the foreign language requirement (page 29) before becoming a major. In her freshman and sophomore years she should also take at least 12 points in the social sciences.

After being accepted as a major, the student will be expected to specialize in the study of one country or region. For this purpose she will continue her work in language and will take such courses in the literature, fine arts, geography, history and institutions of her chosen area as may be determined in consultation with her adviser. Whenever possible, these courses will include a seminar in the senior year.

In addition to the language courses given at Barnard, courses in many other languages are available to Barnard students at Columbia University.

Areas of concentration:

1. England. See special program in British Civilization, page 46.
2. Western Europe, with special reference to some one country, Professors Breunig, Carrié, Lorch, Stabenau and others.
3. Russia, ¹Mrs. Emerson, Mrs. Kesich.
4. Far East, Professor Mahler.
5. Latin America, Professor Florit.

Major examination: Students majoring in Foreign Areas Studies are required to pass a major examination, the exact nature of which varies with the individual field. Specially qualified students may be invited to write a senior thesis instead of taking a major examination.

B. International Relations

A student who is particularly interested in the field of international relations should major in one of the social sciences, such as economics, government or history. With her major in her chosen subject, she should combine courses in

¹ Absent on leave, 1961-62.

INTERDEPARTMENTAL OFFERINGS

other subjects which deal with international themes. A mimeographed list of such courses, from which selections can be made in consultation with the adviser, is available.

In addition to the courses given at Barnard, other courses in international relations and related fields are available at Columbia University.

II. AMERICAN STUDIES

This program is supervised by the Committee on American Studies:

BASIL RAUCH, Professor of History, Chairman

ANNETTE K. BAXTER, Associate in History

JOHN A. KOUWENHOVEN, Professor of English

OTTO LUENING, Professor of Music

BERNARD BARBER, Associate Professor of Sociology

MARIANNA BYRAM, Assistant Professor of Art History

The purpose of the program is to develop understanding of American civilization considered as a whole. The results of specialized study in all fields of learning dealing with American subject matter are assembled for the work of the senior seminar.

A major in American Studies. Students who wish to major in American Studies should obtain from the Chairman of the Committee an application form which is to be filled out and returned to him when major subjects are selected. Applicants must show special qualification for the major by their performance in several of the required courses. By the end of the sophomore year, applicants should complete History 9–10 and 1–2, and at least two of the required basic courses. In the junior year majors should take the remaining two basic courses and American Studies 1, 2, and in the senior year the two advanced courses and American Studies 3, 4.

Required Courses:

History 9–10, History of the American Nation from Colonies to World Power
History 1–2, Modern European History

Basic and advanced courses in social sciences and humanities to be selected from a mimeographed list issued by the Chairman. These courses are distributed as follows:

Two basic full-year courses in social sciences.

Two basic full-year courses in humanities.

One full-year advanced course in one of the social sciences in which a basic course was taken.

One full-year advanced course in one of the humanities in which a basic course was taken.

A research essay to be prepared in the senior seminar is required in lieu of the major examination.

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1, 2. Junior Readings. 6 points. [0]

Students will read selected classics in American Studies and also important books dealing with subjects which they do not study in basic courses. Brief written reports for discussion in the meetings. The reading list for this course should be obtained by majors at the end of the sophomore year in preparation for entering the course in the fall. At the end of the spring term a summer reading assignment will be made for completion before entering the senior seminar.

Required of all junior majors in American Studies. Open to others by special permission of the Chairman of the Committee. DR. BAXTER. Bi-weekly meetings of two hours. Hours to be arranged.

3, 4. Senior Seminar. 8 points. [0]

A theme will be selected each year which will require the use of materials drawn from several of the disciplines dealing with American experience. Students will conduct individual research and writing programs on a particular aspect of the general theme, and present their results to the seminar.

Required of all senior majors in American Studies. Open to others by special permission of the Chairman of the Committee. PROFESSOR RAUCH. W 4-6 and frequent conferences.

III. BRITISH CIVILIZATION

This program is supervised by the Committee on British Civilization:

¹SIDNEY A. BURRELL, Associate Professor of History, Chairman

THOMAS P. PEARDON, Professor of Government, Acting Chairman

DAVID A. ROBERTSON, JR., Professor of English

¹CHILTON WILLIAMSON, Professor of History

Open to students who are interested in an interdisciplinary approach to learning within a broad general area. Particularly emphasizes historical and literary traditions of British Civilization, but is comprehensive enough to include specialized interests in the fields of imperial and commonwealth studies.

A major in British Civilization. A student who wishes to major in British Civilization must obtain the approval of the Chairman of the Committee before March 1 of the sophomore year. By this time the applicant should have completed or be in the process of completing History 1-2. The applicant should then plan, in consultation with the Chairman, a program of study which will contain the following three required courses: History 11, 12; History 35, 36; and a senior seminar.

In addition each student should select in accordance with her interests a minimum of three courses in the social sciences and the humanities (within the general area of British Civilization) to be selected in consultation with the Chairman, as follows:

One basic course in the social sciences.

¹ Absent on leave, 1961-62.

INTERDEPARTMENTAL OFFERINGS

One basic course in the humanities.

One advanced course in either the social sciences or the humanities.

Senior requirement: A senior may elect to take a three-hour comprehensive examination to be given at the end of April or she may write a senior thesis, the length and standards of which will be set by the Committee.

81–82 (same as **Government 61, 62, Section I**). **Seminar in British Civilization.** [0]
8 points.

Readings and discussion of selected problems in the development of British civilization from the Norman Conquest to the twentieth century. Open to majors in British Civilization and history majors interested in historiography on permission of the Chairman of the Committee on British Civilization. Prerequisite: History 11, 12. PROFESSOR PEARDON. T 4–6.

IV. CONSERVATION OF NATURAL RESOURCES

This program is organized and administered by a committee of members of the Departments of Botany and Geology-Geography:

LEONARD ZOBLER, Associate Professor of Geography, Chairman

DONALD D. RITCHIE, Associate Professor of Botany

HENRY S. SHARP, Professor of Geology

The program is designed for students who have a vocational or an avocational interest in the earth as the home of man. In an urbanized society it is important to sharpen man's awareness of his dependence on natural resources. The ecology of human society is illustrated by the study of: the conservation of resources of soil, water, fishing, forests, and minerals; concern for wildlife; protection of local and federal areas for public parks; and the threat of air and stream pollution and over-crowded cities to the survival of our way of life.

Students who wish to participate in the program should consult a member of the committee. The program is flexible enough to accommodate students with special interests, including those who may wish to combine these offerings with teaching.

The following courses are suggested for a major: Botany 1–2; 7; ★F1003x–F1004y; Geography 1; 3, 4; 12; Geology 1–2; 30 or 32. A senior seminar in Natural Resources and a summer course in field ecology and conservation are strongly recommended.

V. INTERDEPARTMENTAL COURSES

Humanities 41, 42. **Thought and Expression in Early Modern Europe.** [3]
6 points.

Lectures and conferences on European intellectual development in politics, letters, and science from the Renaissance through the seventeenth century. Prerequisite: History 1–2 and a reading knowledge of one foreign language. PROFESSOR COLIE. M W F 11.

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★**Italian W1121x.** Dante, Petrarca, Boccaccio and Their World (in English).
2 or 3 points.

Given for students with no knowledge of Italian. A seminar hour will be arranged for the third point. PROFESSOR LORCH. T 3:10—4:50.

★**Italian W1122y.** Italian Renaissance and its Classical Background (in English).
2 or 3 points.

Readings of Italian poets and of Italian writers of the Renaissance will be paralleled by readings of Vergil, Ovid, Horace, Livy, Tacitus, Homer, Herodotus, Thucydides, Theocritus, Plato, and Plutarch. Given for students with no knowledge of Italian. A seminar hour will be arranged for the third point. PROFESSOR LORCH. T 3:10—4:50.

VI. OTHER INTERDEPARTMENTAL OFFERINGS

An interdepartmental program in the foundations of education and child study.
See page 69 for details.

Joint majors. In addition to these offerings, it is possible for students to take a joint major in two departments. This is especially true in the social sciences where students often make combinations such as: economics and government; economics and sociology; government and history; government and sociology; geography and history.

For the requirements in these and other similar majors, consult the departments concerned.

VII. THE HERITAGE OF THE HUMANITIES

The following courses have been grouped together as an introduction to the varied facets of our cultural heritage and traditions. For suggestions as to further development of this material, please consult the chairman of one of the humanities or social science departments. Course descriptions may be found in the departmental statements.

Art History 1—2. An Introduction to the Study of Art History. 6 points.
PROFESSOR NOVAK.

Classical Civilization 57. Masterpieces of Greek Thought. 3 points.
PROFESSOR DAY.

English 43. Masterpieces of the Middle Ages. 3 or 4 points. MISS NELBACH.

English 70. English Drama from the Restoration to the End of the Nineteenth Century. 3 points PROFESSOR HOOK.

English 71, 72. The Novel. 6 points. PROFESSOR CROSS.

English 83. Modern Literature and the Allied Arts. 3 points. PROFESSOR ULANOV.

INTERDEPARTMENTAL OFFERINGS

- English 85. Modern British and American Poetry.** 3 points. MR. PACK.
- English 86. Drama from Ibsen to the Present.** 3 points. PROFESSOR ULANOV.
- Humanities 41, 42. Thought and Expression in Early Modern Europe.**
6 points PROFESSOR COLIE.
- ★Italian W1121x. Dante, Petrarca and their World.** 2 or 3 points. PROFESSOR LORCH.
- ★Italian W1122y. Italian Renaissance and its Classical Background.**
2 or 3 points. PROFESSOR LORCH.
- Music 1–2. An Introduction to Music.** 6 points. PROFESSOR DORIS and MISS CHINN.
- Oriental Civilizations 35–36.** 8 points. PROFESSORS DE BARY, EMBREE, and MESKILL.
- Oriental Humanities 39–40.** 8 points. PROFESSORS DE BARY, EMBREE, MADINA, MESKILL, and WEILER.
- Philosophy 25. Social Philosophy.** 3 points. DR. MOORE.
- Philosophy 42. Philosophy of Art.** 3 points. DR. MOORE.
- Religion 25, 26. Religion in Contemporary Society and Culture.** 6 points. PROFESSOR STAHMER.

ANTHROPOLOGY

ASSISTANT PROFESSORS: ANN CHOWNING (Chairman), CATHARINE MCCLELLAN

ASSISTANT: -----

Anthropology is the study of man in all of his biological and cultural aspects. Consequently it is related to both the natural and social sciences and also to the humanities, and a student majoring in anthropology receives a broad liberal arts education. She will also be prepared to continue in graduate work, usually necessary for a professional career in anthropology.

While every major is expected to have a general knowledge of the field, she usually concentrates her studies in one segment of it, hence the arrangement of the major examination and the combinations of courses suggested below.

All majors must take: Courses 1; 5-6; 19; 20; 51, one Barnard ethnography course and one prehistory course taken at either Barnard or Columbia.

Majors of high standing may be invited to write a senior thesis (53, 54). All majors must take a major examination which is in two parts of three hours each. The first section, taken by all majors, tests the student's knowledge of theoretical concepts in anthropology; ethnography; physical anthropology; prehistory; linguistics. Greatest emphasis is on the first four topics. The second section consists of individual examinations directed toward the special interests of each student.

Suggested combinations of courses are:

For students primarily interested in the biological aspects of anthropology: Course 5-6; geography, geology, psychology, zoology and appropriate Columbia courses.

For students primarily interested in the social sciences: Courses 2; 3; 4; 14; 26; economics, geography, government, history, philosophy, psychology, religion, sociology and appropriate Columbia courses.

For students primarily interested in archaeology: Courses 11; 12; ancient history, classical civilization, fine arts, geography, geology and appropriate Columbia courses.

For students primarily interested in the humanities: Courses 7; 12; art history, language, literature, philosophy, religion and appropriate courses in primitive art, linguistics and musicology at Columbia.

Several major museums and libraries in New York offer exceptional opportunities for individual research which may be carried out in Courses 51; 53, 54. Students also may take part in summer archaeological expeditions for which academic credit is usually given.

1, 2. Introduction to Anthropology. 6 points. [1]

The nature of man's society and culture: comparative study of economics, social and political organization, religion, art, and the individual in simple societies. Problems resulting from contacts between machine age cultures and non-literate groups. Each course counts towards the requirement in contemporary society; if taken together they fulfill it. Prerequisite for Course 2: Course 1 or permission of the instructor. PROFESSOR MCCLELLAN and assistant. M W F 9.

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- [3. **Cultural Anthropology of the Old World.** 3 points. PROFESSOR CHOWNING.
Not given in 1961-62.]
- 5-6. **Physical Anthropology.** 6 points. [7]
The physical origin of man, his evolution and differentiation into races; consideration of the fossil record, racial criteria and population dynamics. Fulfills the non-laboratory biological science requirement. PROFESSOR CHOWNING and assistant. T Th 10:35-11:50.
- 7 (also ★G4107x). **The Study of Folklore.** 2 or 3 points. [6]
Mythology, folktale, proverbs, and other forms of expression. Analysis of style, characters, and plot; significance of folklore in the study of culture. Greatest emphasis will be placed on material from non-literate societies. Term paper. A second paper based on the Motif-Index of Folk-Literature is required for the third point. PROFESSOR CHOWNING. T Th 9.
9. **Cultural Anthropology of the New World.** 3 points. [5]
Survey of the Indian and Eskimo cultures of the Americas. Term paper. PROFESSOR McCLELLAN. M W F 2.
- [11. **New World Archaeology.** 3 points. PROFESSORS CHOWNING and McCLELLAN.
Not given in 1961-62.]
12. **Old World Archaeology.** 3 points. [5]
Prehistoric culture developments in Africa, Europe and Asia. Term paper. PROFESSOR McCLELLAN. M W F 2.
14. **Social Organization.** 3 points. [4]
Comparative social organization of preliterate societies. Analysis of various aspects of social structure. Term paper. PROFESSOR CHOWNING. M W F 1.
19. **History of Anthropological Theory.** 3 points. [9]
The historical development of the principal concepts in the various subfields of anthropology from the nineteenth through the early part of the twentieth century. Bi-weekly papers for the third point. Open only to juniors and seniors. Prerequisite: Course 1-2 or written permission of the instructor. PROFESSOR McCLELLAN. Th 2-4.
20. **Current Anthropological Theory.** 3 points. [9]
Major theoretical concepts current in the various subfields of anthropology. Bi-weekly papers for the third point. Open only to juniors and seniors. Prerequisite: Course 1-2 or written permission of the instructor. PROFESSOR CHOWNING. Th 2-4.
- [26 (also ★G4126y). **Ethnology of the Far North.** 3 points. PROFESSOR McCLELLAN.
Not given in 1961-62.]

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- 51, 52. Seminar in Anthropology.** 6 points. [0]
The specific subject for discussion will be determined by the interests of the students. Majors must take Course 51 in the senior year, and it is ordinarily open only to them; a research paper is required. Course 52 is optional; emphasis is on reading and oral reports. Autumn Term: PROFESSOR CHOWNING. Spring Term: PROFESSOR McCLELLAN. T 4-6.
- 53, 54. Senior Thesis.** 6 points. [0]
Topic to be chosen in consultation with the instructor in charge. Weekly conference required. PROFESSORS CHOWNING and McCLELLAN. Hour to be arranged.

COLUMBIA COURSES

Certain graduate courses given at Columbia University may be elected in the junior and senior years with the consent of the Barnard department. A description of these courses will be found in the Announcement of the Graduate Faculties. Certain Columbia College and General Studies courses are also open to Barnard majors, provided that permission is obtained both from the Chairman of the Barnard department and from the College Representative or the General Studies Representative of the Columbia Department of Anthropology. For details of these courses see the Announcement of Columbia College and the Announcement of the School of General Studies.

In Columbia College the following courses are open to Barnard students:

- ★C3025x-C3026y. Introduction to Linguistics. PROFESSOR DIVER.
M W F 2.
- ★C3029y. Archaeology of the New World. PROFESSOR SOLECKI. M W 11.
- ★C3066y. Rural Latin America. PROFESSOR HARRIS. Hours to be arranged.
- ★C1022y. Race and Ethnic Relations. PROFESSOR HARRIS. M W F 2.

In the School of General Studies the following courses, in addition to those also listed as Graduate Courses, are open to Barnard students:

- ★F1006y. Indians of North America. PROFESSOR VAYDA.
M W 5:40-6:55 p.m.
- ★F1008x. Indians of South and Central America. PROFESSOR VAYDA.
M W 5:40-6:55 p.m.
- ★F3014x. Primitive War. PROFESSOR VAYDA. M W 7:10-8:25 p.m.
- ★F3049x. Methods and Results in Archaeology. MR. WARD.
M W 8:40-9:55 p.m.
- ★F3050y. Field Archaeology. MR. WARD. S 9-12 a.m.

ART HISTORY

PROFESSORS: JULIUS S. HELD, MARION LAWRENCE (Chairman)

ASSOCIATE PROFESSOR: JANE G. MAHLER

ASSISTANT PROFESSORS: MARIANNA BYRAM, BARBARA NOVAK

ASSISTANT: BERNICE J. KRAMER

STUDIO ASSISTANT: JULIANA CUYLER

OFFICERS OF COLUMBIA UNIVERSITY GIVING INSTRUCTION IN BARNARD COLLEGE:

ASSOCIATE PROFESSOR: EDITH PORADA

LECTURER: JANE HENLE

Art is a unique form of human expression. A study of its history will often provide a surprisingly vivid insight into the intellectual currents, the religious doctrines and practices, and the social institutions of the past. The student will see to what extent the unfolding of art is determined by conditions existing outside it, and by the impetus given it by the great creative personalities. She will in consequence gain a deepened understanding of the art of our own time and an ability, often fully appreciated only after she has left college, to enjoy intelligently the great accumulations of art in museums all over the world.

Courses in the history of art are generally of the lecture type. In several courses a third hour offers opportunities for discussions in small groups. Many courses schedule trips to museums and in other ways take advantage of the resources of New York, one of the world's great centers of art. Studio techniques are taught only in Course 1-2, but students are encouraged to take any course for which they qualify in the School of Painting and Sculpture of Columbia University. See page 56 for regulations governing these courses.

Majors in Art History are required to take the seminar, 97-98, and courses in ancient, medieval, renaissance, baroque and modern art. Studio courses do not count towards the major. A reading knowledge of French, German and Italian is highly desirable, especially for students who expect to do graduate work.

The major examination is in two sections of three hours each and is designed to test (1) the student's overall knowledge of the field, (2) her ability to analyze individual works of art, and (3) her competence in one special field, chosen by her in consultation with her major adviser and in which she has been working in the senior seminar.

1-2. Introduction to the Study of Art History. 4, or with laboratory,
6 points. [6]

A general study of aesthetic problems in the visual arts as preparation for a more detailed study, including a discussion of the major problems of artistic expression and their solution in the fields of architecture, sculpture, and painting, together with a consideration of the art as characteristic of certain great periods of European culture. Short papers on buildings, sculpture, and paintings in New York.

Laboratory work: Drawing, sketching from the living model, water color, tempera, clay modelling, and carving. Two hours of class instruction and one of studio practice, counting one point a term.

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This course satisfies the non-literature requirement in the humanities. PROFESSOR NOVAK. Lec. T Th 9:30–10:30. Lab. (2 hours) M 2–4, T 2–4, or Th 2–4. MISS CUYLER.

43. Introduction to Ancient Art. 3 points. [4]

A survey of the ancient art of Egypt, Mesopotamia, Greece and Rome down to the time of Constantine with emphasis on the major arts—architecture, painting, and sculpture. Open to all except freshmen. ★History C1105x–C1106y is recommended as a parallel course. DR. HENLE. M W F 1. Visits to the Metropolitan Museum of Art, F 12:30, or at hours to be announced.

51, 52. Medieval Art. 6 points. [5]

Christian art from its beginnings in the late antique world in Mediterranean countries through the early Christian and Byzantine periods, with emphasis on mosaics and illuminated manuscripts, then the Celtic, Carolingian and Romanesque styles of western Europe. Spring Term: Romanesque sculpture and architecture of Italy and France and Gothic architecture, sculpture and painting, ending with the introduction of the Italian Renaissance into France. Open to all except freshmen. History 7, 8 is recommended as a parallel course. Course 51 is prerequisite to Course 52. PROFESSOR LAWRENCE. M W F 2. Third hour and visits to the Metropolitan Museum of Art, the Pierpont Morgan Library, and the Cloisters, F 2, or at hours to be arranged.

61. European Architecture from the Renaissance through the Rococo Style. 3 points. [2]

Starting with the Italian Renaissance the course will cover the major developments in European architecture from the fifteenth century through the Rococo style of the eighteenth century. Open to all except freshmen. PROFESSOR BYRAM. M W F 10.

64. European Sculpture, Renaissance and Modern. 3 points. [4]

Important developments in European sculpture from the Pisani and the Italian Renaissance into the twentieth century. One or two term examinations and possibly one or two short papers. Open to all except freshmen. PROFESSOR BYRAM. M W F 1.

65. Renaissance Painting in Northern Europe. 3 points. [9]

Painting of the Flemish, Dutch, French, and German schools from the end of the Gothic period through the sixteenth century. Emphasis on Van Eyck, Van der Weyden, Bosch, Bruegel, Dürer, and Grünewald. Open to all except freshmen. PROFESSOR HELD. T Th 2 and a third hour to be arranged. Visits to the Metropolitan Museum of Art.

66. Italian Renaissance Painting. 3 points. [9]

The stylistic and iconographic development of Italian painting from the thirteenth to the middle of the sixteenth century with detailed study of Giotto, Masaccio, Leonardo, Raphael, Michelangelo, and Titian. Open to all except freshmen. PROFESSOR NOVAK. T Th 2 and a third hour to be arranged. Visits to the Metropolitan Museum of Art.

- 70. European and American Architecture from the Eighteenth into the Twentieth Century.** 3 points. [2]
 Begins with the classic revival in France, Germany, and England. The last third of the course is on American architecture from the eighteenth century to the present. Open to all except freshmen. PROFESSOR BYRAM. M W F 10.
- 75, 76. European Painting since the Renaissance.** 6 points. [7]
 The artists of Mannerism and the Baroque (El Greco, Caravaggio, Poussin, Velazquez, Rubens, Rembrandt), the influence on art of the Counter-Reformation and Absolutism. Spring Term: The artists of the Rococo (Watteau); Classicism and Romanticism (David, Goya, Delacroix); Realism, Impressionism, and the emergence of modern art (Courbet, Manet, Cézanne, Van Gogh, Picasso). Open to all except freshmen. Course 75 is prerequisite to Course 76 except on written permission of the instructor. PROFESSOR HELD. T Th 10:35–11:50.
- 77 (also ★W3777x). American Art from Colonial Times to the Armory Show.** 3 points. [10]
 The development of the arts in America from colonial times to the Armory Show of 1913 with special emphasis on Realism and Romanticism in the nineteenth century. Open to all except freshmen. PROFESSOR NOVAK. M W 3–4:30.
- 78. Modern European and American Painting.** 3 points. [10]
 Fauvism, Cubism, Dada, Surrealism, abstract art and other twentieth century movements. The impact of radical European innovation in America during and after the Armory Show, and the evolution of a variety of native styles from Marin to Pollock. Open to all except freshmen. PROFESSOR NOVAK. M W 3–4:30.
- 81. The Literature of Art.** 3 points. [13]
 Study of the literary sources used in art historical research; artists' letters, journals and treatises (by Leonardo, Rubens, Delacroix, Van Gogh), contemporary biographies (Vasari and Van Mander), the ideas and writings of leading critics and scholars (Burckhart, Wölfflin, Worringer, Berenson, Fry, Panofsky and Malraux). Visual material will be discussed. Intended for junior majors, but also open to senior majors. PROFESSOR NOVAK. T 3–5.
- 82. Masterpieces of Art in the New York Museums.** 3 points. [13]
 Designed to acquaint students with some of the great artistic treasures assembled in New York and to sharpen their aesthetic and historical understanding in front of the originals themselves.
 Open only to majors. Limited to fifteen students. PROFESSOR HELD. T F 3:30–5.
- 91, 92 (also ★W3911x, W3912y). Oriental Art.** 6 hours. [3]
 The arts of Persia, India, and Indonesia; temples, palaces, sculpture, miniature painting, frescoes, and minor arts. The arts of China and Japan, with attention to central Asiatic art as it affects these countries. Chinese bronzes, Buddhist art, and the great painting and porcelain of the Sung period; in Japan, Buddhist architecture and sculpture, and the later scrolls, screens, and prints. Open to all except freshmen. Autumn Term: PROFESSOR PORADA; Spring Term: PROFESSOR

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MAHLER. M W F 11. Conferences and visits to the Metropolitan Museum of Art at hours to be arranged.

97-98. Seminar for Majors. 6 points. [12]

A discussion of the basic principles of art history, the tools with which the art historian works and some of his problems. Relations with classical archaeology, primitive art and anthropology, architecture, aesthetics, etc., are discussed by visiting lecturers. Brief oral reports by students on problems of general interest and a term paper in the second term on material in the special field chosen by the student. Required of all majors in their senior year. PROFESSOR LAWRENCE. Th 3-5.

TECHNICAL COURSES

Studio courses can count towards the degree only if taken parallel to a theoretical or historical course in art history. A maximum of 12 points of studio work may be credited towards the degree. Junior and senior majors are exempt from special fees. Admission only with written permission of the Chairman of the Department and the Departmental Representative (408 Low Library).

★Design R1001x-R1002y. Basic Design. 6 points.

Fundamentals of design; creative construction of lines, shapes, and colors. Model fee, \$6 per term. PROFESSORS MANGRAVITE and PICKEN. Section I T Th 1-4. Section II M W 7-10 p.m. (Spring Term only.)

★Drawing R1001x-R1002y. Introductory Drawing. 6 points.

Course R1001x is not prerequisite to Course R1002y, which may be taken independently. Study of fundamental principles of drawing, with special emphasis on the human figure. Model fee, \$7.50 per term. PROFESSORS KNIGHT, MANGRAVITE, and PICKEN. Section I M W 9-11:50. Section II T Th 1-4. Section III T Th 6-10 p.m.

★Sculpture R1001x-R1002y. Introductory Sculpture. 6 points.

Modeling in clay and plaster, with emphasis on design. Elementary studies of the human figure. Laboratory fee, \$6 per term. PROFESSOR NIVOLA and MR. AGOSTINI.

Section I T Th 9-11:50. Section II M W 7-9:50 p.m.

Other studio courses given at Columbia University may be taken by written permission of the chairman of the department. These courses are described in the Announcement of the School of General Studies under Painting and Sculpture.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified seniors with the consent of the chairman of the department and the major adviser. A description of these courses will be found in the Announcement of

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the Graduate Faculties. The following are specifically recommended as suitable for Barnard seniors:

- ★G4056y. The Art of Primitive Peoples. 3 points. PROFESSOR FRASER.
W 7–9 p.m.
- ★G4075x. The Art of Negro Africa. 3 points. PROFESSOR FRASER.
W 7–9 p.m.
- ★G4125y. Buddhist Art of India and the Far East. 3 points. PROFESSOR
MAHLER. T 3–5.
- ★G4135y. Early Islamic Art. 3 points. DR. GRUBE. Th 6:30–8:30.
- ★Archaeology G4170y. Archaeology of the Bible. 3 points. PROFESSOR
PORADA. M 6–8.
- ★G4180x. Egyptian Sculpture and Painting. 3 points. PROFESSOR PORADA.
T 4–6.
- ★G4210x. Minoan-Mycenaean Art. 3 points. DR. HENLE. M W 7–8:30
p.m.
- ★G4220y. Roman Architecture. 3 points. PROFESSOR BROWN. Hours
to be arranged.
- ★G4230y. Greek Vase Painting. 3 points. DR. HENLE. M W 7–8.30
p.m.
- ★G4245x. Greek Sculpture and Painting of the Fifth Century B.C. 3 points.
PROFESSOR BRENDDEL. T 2–4.
- ★4250y. Greek Sculpture and Painting of the Fourth Century B.C. 3 points.
PROFESSOR BRENDDEL. F 10–12.
- ★G4320x. Early Christian Art. 3 points. PROFESSOR SCHAPIRO.
M 10–12.
- ★G4330y. Byzantine Art after Iconoclasm. 3 points. DR. FORSYTH.
W 10–12.
- ★G4350y. Romanesque Art in Italy. 3 points. PROFESSOR LAWRENCE.
Th 10–12.
- ★G4354x. Gothic Art. 3 points. PROFESSOR BRANNER. W 10–12.
- ★G4435x. Florentine Painting: Masaccio to Leonardo. 3 points. PROFES-
SOR DE TOLNAY. F 2–4.
- ★G4440y. North Italian Painting of the Fifteenth Century. 3 points.
PROFESSOR DAVIS. Th 3–5.
- ★G4533y. Church Architecture in Italy c. 1550–c. 1650. 3 points. PRO-
FESSOR HIBBARD. F 3–5.

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★G4545x. French Seventeenth Century Painting. 3 points. MR. POSNER.
T 4-6.

★G4560x. Dutch Painting of the Seventeenth Century. 3 points. PROFES-
SOR HELD. W 4-6.

★G4630y. Impressionism. 2 or 3 points. PROFESSOR SCHAPIRO.
M W 3-4.

★G4642x. Modern Art and Tradition. 3 points. PROFESSOR REFF.
M 4-6.

BOTANY

ASSOCIATE PROFESSORS: WILLIAM A. CORPE, DONALD D. RITCHIE (Chairman)

ASSISTANTS: SUSAN C. CANHAM, MARY C. EFTHIMION

A major in botany should become familiar with the properties and functions of living matter, as exemplified by plants in various evolutionary groups from bacteria to grasses. Emphasis is on the relation of structure to biological function; on photosynthetic plants as the primary energy-conserving agents of the earth; and on approaches which have been and should continue to be fruitful in explaining biological events. Aside from the satisfaction of work in a field with areas yet to be explored, the botanist will find opportunities for work, particularly in microbiology, in the laboratories of industry and government, universities, and scientific institutions.

Students majoring in botany take Course 1–2 and additional courses to make a total of 28 points. In preparation for graduate work, Courses 5, 6; ★G6151x and ★G6161x are recommended. Other combinations are permitted, however, and are determined by the plans of the student who seeks immediate employment, plans to teach in secondary or elementary schools, or desires an introduction to the plant world.

Botany majors are expected to take a year of chemistry. Those who intend to do graduate study must have organic chemistry, and as much work in physics, zoology, and the other sciences as time permits. Russian, German, and French, or some combination of these, will be necessary for advanced degrees.

Research projects may be selected by students desiring to do individual work. They are usually related to current faculty research, and may lead to professional publication. Greenhouse space and laboratory equipment are made available for such projects.

The major examination consists of a two-hour written test on the field, an oral session, and the Graduate Record Examination.

Because of the increasing pressure of the human species for space, food, and energy, the Departments of Botany and of Geology-Geography offer a joint major in the Conservation of Natural Resources. Students concerned with the future well-being of the United States and of man in general should read the announcement of this program on page 47, under Interdepartmental Offerings.

1–2. General Botany. 8 points. [6]

An introduction to the plant kingdom. The bacteria, algae, fungi, mosses, ferns and seed plants. Patterns of reproduction; heredity and evolution; intake, manufacture and utilization of nutrients; the relationship of the plant to its environment. Lecture materials correlated with laboratory studies. Emphasis upon the importance of plants to man. PROFESSOR RITCHIE and staff. Lec. T Th 9 and W 3. Lab. (2 hours) T 10–12, 2–4 or Th 2–4.

1a–2a. General Botany. 6 points. [6]

Lectures identical with those of 1–2. No laboratory work. To follow or parallel: a laboratory science. PROFESSOR RITCHIE and staff. T Th 9 and W 3.

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★F1003x–F1004y. Plant Geography. 6 points.

Formerly Course ★G.S. 3–4. Distribution of plant life in North America at the present time, and origin and sequence in the geologic periods. The laboratory work is in the field and aims to acquaint the student with the names and associations of our common plants. Prerequisite: ★F1001x–F1002y (formerly Course ★G.S. 1–2) or Course 1–2. Registration limited. Admission only on written permission of the instructor. PROFESSOR LIER. M Th 6–6:50. Field work at hours to be arranged.

5, 6. Cytology. 10 points. [2]

Study of the cell: cell wall, nucleus and cytoplasm and their inclusions, studied by means of conventional sections, special fixation, smears, vital stains, polarized light, phase microscopy, etc. Prerequisite: at least a year of college work in either botany or zoology. PROFESSOR RITCHIE. Lec. M F 10. Lab. (6 hours) W 10–12, plus 4 hours to be arranged.

[7. Plant Resources. 3 points.

Not given in 1961-62.]

[8. Structure and Relationships of Flowering Plants. 4 points.

Not given in 1961-62.]

10. Elementary Microbiology. 4 points. [5]

Introduction to study of bacteriological methods, representative types of microorganisms, and their importance in human economy. PROFESSOR CORPE. Lec. M W 2. Lab. (4 hours) M W 3–5.

★G6151x. Introduction to Microbiology. 4 points. [9]

Formerly Course ★151. Culture, morphology, general physiology and ecology of representative microbial species; their role in nature and disease. Prerequisites: one year of college work in botany or zoology and preceding or parallel, organic chemistry. Certain exceptions are allowed. Written permission of the instructor is required. Open to juniors and seniors. PROFESSOR CORPE. Lec. T Th 2. Lab. (4 hours) T Th 3–5.

★G6152y. Advanced Microbiology. 4 points. [9]

Formerly Course ★152. Cytology, growth, death and biochemical activities of bacteria, with special attention to modern laboratory methods used in experimentation with microorganisms. Prerequisite: Course ★G6151x or the equivalent. Written permission of the instructor is required. PROFESSOR CORPE. Lec. T Th 2. Lab. (4 hours) T Th 3–5.

★G6161x, G6162y. Special Problems in Microbiology, Morphology, and Physiology. 2 to 8 points. [0]

Formerly Course ★161, 162. Work planned to suit the needs and interests of the students. This course may be taken in successive years. Staff. Hours and credit by arrangement.

CHEMISTRY

PROFESSORS: EDWARD J. KING (Chairman), ¹EMMA D. STECHER

ASSISTANT PROFESSOR: GLORIA C. TORALBALLA

LECTURERS: GRACE W. KING, BERNICE SEGAL

ASSISTANTS: SUZANNE M. JAVITT, -----, -----

A major in chemistry is designed: (1) to make clear the orderly nature of the universe as exemplified in chemical processes, and to indicate the methods by which this order has been, and still is being, elucidated; (2) to provide the student with an understanding of the fundamental importance of chemistry both in modern industry and in the biological world; and (3) to provide for those students who wish it the necessary pre-professional training for careers in teaching, in medicine, or in chemical research.

A student who wishes to major in chemistry should take Course 1–8 and Mathematics 7; 16 or 15 or 26 during the first year if possible. Thereafter, she will need to take Courses 41; 42; 51 and 99. Beginning with the Class of 1963, Courses 55, 56 and 57 will also be required. General physics should be taken in the second year. A year of differential and integral calculus must be completed before taking physical chemistry. Majors are strongly advised to take more than a year each of physics and calculus. A reading knowledge of German must be acquired. A reading knowledge of either French or Russian is also advisable, if a student plans to do graduate work in chemistry.

Majors who complete a program prescribed by the American Chemical Society receive an accrediting certificate from the Society. Besides the courses required of all chemistry majors, these students must take Courses 55, 56 and 57 in addition to at least four points of advanced lectures and two points of advanced laboratory.

The major examination is given in two parts: The general factual material is covered in a three-hour Graduate Record examination, given in April of the senior year. At about the same time there is a four-hour examination of the essay type, designed to test the student's ability to assemble facts and coordinate material in some of the broader fields of chemical knowledge.

1. General Elementary Chemistry. 4 points. [6]

A study of chemical principles with applications to inorganic chemistry. Course 1–2 and Course 1–8 are not divisible under any circumstances. PROFESSORS KING and TORALBALLA, DR. KING and assistants.

Section I: for students with no previous chemistry: Lec. T Th 9–10:20.

Section II: Lec. T Th 9–9:50.

Section III: Lec. T Th 10:35–11:25.

Recitation and laboratory for all sections: one afternoon: M T W Th or F 2–5:30.

¹ Absent on leave, Spring Term.

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- 2. General Chemistry.** 4 points. [6]
Properties of inorganic, organic, and biochemical systems are surveyed and interpreted. A terminal course for non-science majors. Prerequisite: Course 1. PROFESSOR KING, DR. KING, and assistants.
Lec. T Th 9–9:50. Recitation and laboratory: one afternoon: M or T 2–5:30.
- 1a–2a. General Elementary Chemistry.** 6 points. [6]
Lectures and recitations identical with those of Course 1–2. No laboratory work. Prerequisite: Preceding or parallel, a laboratory science. PROFESSORS KING and TORALBALLA. Lec. T Th 9 and a recitation hour M or T 2.
- 8. Qualitative Analysis and Electrolytic Solutions.** 4 points. [7]
A study of ionic compounds and ionic equilibria. Prerequisite: Course 1. Course 8 is a prerequisite for further work in chemistry. DR. SEGAL, DR. KING and assistants. Lec. T Th 10:35–11:25. Recitation and laboratory one afternoon: W Th or F 2–5:30.
- 41. Organic Chemistry.** Lectures (41a, 4 points). Laboratory (41b, 2 points). [1]
Typical reactions of aliphatic compounds with an introduction to aromatic chemistry. Laboratory work in organic preparations. This course satisfies the minimum requirement for many medical schools. Prerequisite: Course 1–8. Laboratory deposit, \$15. PROFESSORS STECHER and TORALBALLA and assistants.
Lec. M W F 9 and F 1. Lab. T Th 9–12 or 2–5 and, if warranted by registration, M W 2–5.
- 42. Organic Chemistry.** Lectures (42a, 4 points). Laboratory (42b, 2 points). [1]
Lectures emphasize aromatic chemistry and modern theories. Laboratory work includes an introduction to qualitative organic analysis. Prerequisite: Courses 1–8 and 41. With special permission non-majors may take the lectures without the laboratory. Laboratory deposit, \$15. PROFESSOR TORALBALLA and assistants. Lec. M W F 9 and F 1. Lab. T Th 9–12, and, if warranted by the registration, T Th 2–5.
- [51. Quantitative Chemistry.**
Not given in 1961-62.]
- 55, 56. Physical Chemistry.** 6 points. [2]
Chemical principles covering the states of matter and the phase rule; electrochemistry; chemical kinetics; elementary thermodynamics and chemical equilibrium. Except by special permission, chemistry majors must elect Course 57 parallel to 55. Prerequisite: Course 1–8; Physics 3–4 and differential and integral calculus. PROFESSOR KING and DR. SEGAL. Lec. M W F 10.
- 57. Physical Chemistry Laboratory.** 3 points. [0]
Experiments illustrating the physico-chemical approach to the study of liquids and gases, thermochemistry, chemical and phase equilibria, chemical kinetics, electrochemistry and radiochemistry. Prerequisite: Courses 23, 24; Physics 3–4; differential and integral calculus. Laboratory deposit, \$15. DR. SEGAL. Lab. M W 2–5 or T Th 2–5.

CHEMISTRY

64. Advanced Analytical Chemistry. 3 points. [0]

Lectures and laboratory work on quantitative analysis with instruments. Open to students who have completed the major requirements. Laboratory deposit, \$15. PROFESSOR KING. Lec. M 1. Lab. M 2-5, W 2-5.

78. Advanced Physical Chemistry Laboratory. 3 points [0]

Projects suggested by recently published work. Lectures on instrumental methods. Prerequisite: Courses 57; 56 (parallel). Laboratory deposit, \$15. DR. SEGAL. Lec. M 1. Lab. T 2-5 and Th 2-5.

85. Organic Chemistry, Advanced Course. 3 points. [7]

Modern theories of the mechanisms of organic reactions. Prerequisites: Courses 23, 24, 41-42. PROFESSOR STECHER. T Th 10:30-11:50.

87, 88. Problems in Chemistry. 2 to 4 points. [0]

Advanced individual laboratory projects for students who have completed the major requirements except Course 99. Laboratory deposit, \$15 each session. PROFESSORS KING, STECHER and TORALBALLA and DR. SEGAL. Hours and credit by arrangement.

90. Physiological Chemistry. 3 points [7]

A study of the chemical nature and functions of the constituents of living matter and discussion of certain metabolic processes. Prerequisite: Courses 23, 24; 41-42. PROFESSOR TORALBALLA. T Th 10:30-11:50.

99. Conferences in Chemistry. 2 points. [5]

Readings and discussion of selected topics. Required of majors in their senior year. PROFESSOR KING. F 2-4.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open with the consent of the instructor, of the department, and of the Committee on Programs and Standing of Barnard College to qualified seniors.

The following are suggested:

★G4104y. Advanced Inorganic Chemistry.

★G4131x. Introduction to Chemical Physics.

★G4133y. Physical Chemistry: Chemical Thermodynamics.

★G4147x. Advanced Organic Chemistry.

CLASSICAL CIVILIZATION (See GREEK AND LATIN)

DRAMA

The Minor Latham Playhouse is the center of activities for Barnard students interested in the theatre. Majoring in various departments, the students bring to the Playhouse their special abilities and the experience of such courses as those listed below. For further information, consult the Director of the Playhouse.

Students take part in the productions of *Wigs and Cues* (the college dramatic group); the *Gilbert and Sullivan Society*; the Spanish, French, German, and Italian Clubs; and the several dance and music groups. The *Barnard Bulletin's* dramatic column and WKCR (the campus radio station) offer other opportunities to develop abilities related to the theatre arts. Barnard's location in New York enables students to attend productions on and off Broadway.

Among the courses concerned with the theatre are these, described in detail in the departmental announcements:

ENGLISH

- 13, 14. Dramatic Writing. 4 or 6 points. PROFESSOR TEICHMANN.
- 21, 22. Voice and Diction. 6 points. PROFESSOR NORMAN, MISS CAUGHRAN, and MISS NELBACH.
- 21y. Voice and Diction. 3 points. PROFESSOR NORMAN and -----.
- 23, 24. Oral Interpretation of Literature. 6 points. MISS CAUGHRAN.
- 27, 28. Public Speaking. 4 points. PROFESSOR NORMAN.
- 29-30. The Actor's Interpretation of Dramatic Literature. 4 points.
MME. DAYKARHANOVA.
63. Shakespeare and the Elizabethan Stage. 3 points. PROFESSOR HOOK.
64. Introduction to Shakespeare. 3 points. PROFESSOR ROBERTSON.
- [69. English Drama from its Beginnings to 1642. 3 points. PROFESSOR PATTERSON.
Not given in 1961-62.]
70. English Drama from the Restoration to the End of the Nineteenth Century. 3 points. PROFESSOR HOOK.
86. Drama from Ibsen to the Present. 3 points. PROFESSOR ULANOV.
- ★Theatre Arts R4053x-R4054y. Theatre History. 6 points. -----
- ★Theatre Arts R3001x-R3002y. Play Directing. 4 points.
MR. SCHNEIDER.

FRENCH

- 17, 18 French Phonetics.** 6 points. PROFESSOR PLEASANTS.
30. French Theatre in the Twentieth Century. 2 or 3 points. PROFESSOR BREUNIG.

GERMAN

- 5, 6. Introduction to the Study of German Literature from the Eighteenth Century to the Present.** 6 points. MISS SAKRAWA and MRS. JARVIS.
25, 26. German Drama in the Nineteenth and Twentieth Centuries. 4 or 6 points. PROFESSOR STABENAU.

GREEK AND LATIN

- ★W3307x. Greek Comedy.** 3 points. PROFESSOR BENEDICT.
[★W3305x. Greek Tragedy. 3 points.
 Not given in 1961-62.]

ITALIAN

- [★W3641x. Studies in the Italian Theatre.** 3 or 4 points. PROFESSOR LORCH.
 Not given in 1961-62.]

MUSIC

- 5. The Opera.** 3 points. PROFESSOR LUENING.
39-40. Composition. 4 points. PROFESSOR LUENING.

PHYSICAL EDUCATION

It is recommended that students take work each term in body mechanics. The courses in modern dance and fencing are particularly useful.

RUSSIAN

- ★C1229x. Russian Drama and Theatre.** 3 points. MR. GREGG.

SPANISH

- 17-18. The Spanish Drama of the Golden Age.** 6 points. PROFESSORS DEL RÍO and DA CAL.

ECONOMICS

PROFESSOR: RAYMOND J. SAULNIER

ASSOCIATE PROFESSORS: MARION HAMILTON GILLIM (Chairman), ¹ROBERT LEKACHMAN

INSTRUCTOR: JAMES R. O'CONNOR

LECTURER: -----.

ASSISTANT: CAROL ROSENBLATT

Economics examines that substantial share of human activity which affects conditions of living. The major is planned to give each student an understanding of important aspects of economic life as a background both for informed citizenship and also for a career in business, government, research, or teaching. The courses offered treat the history of economic institutions and thought; current economic affairs, both national and international; and methods of economic research and analysis. A student may arrange her program to fit her special interests.

A student majoring in economics will be required to take Courses 1-2; 27 or 28, and 51-52. Courses 5, 6 and 17, 18 are strongly recommended.

Other social sciences: In view of the essential unity of the social sciences, a major is required to take, in addition to a minimum of 28 points in economics, courses amounting to 12 points in two of the following departments, selected in conference with her adviser: anthropology, geography, government, history, philosophy, psychology, religion, sociology. See also Interdepartmental Offerings, page 47.

Each student in the required senior seminar will write an essay. There will be no major examination.

1-2. Introductory Economics. 6 points. [13]

A study of the institutions and forces affecting the stability and growth of income and employment. Subjects covered include: Business and labor organization, national income and its determination, economic theory, economic fluctuations, monetary economics, government finance, international economic relations, and the problems of underdeveloped countries. May be counted towards the requirement in contemporary society. PROFESSOR GILLIM, MR. O'CONNOR and -----.

Section I M W F 9. Section II M W F 10. Section III M W F 12.

[5, 6. Economic History. 6 points. PROFESSOR LEKACHMAN. Not given in 1961-62.]

16. Government Finance and Fiscal Policy. 3 points. [3]

Government taxing, spending, and borrowing; their effects on employment, prices, and incomes; fiscal relations among federal, state, and local governments; and the federal budget. Prerequisite: Course 1-2 or permission of the instructor. PROFESSOR GILLIM. M W F 11.

¹ Absent on leave, 1961-62.

- 17, 18. Introductory Statistics.** 6 points. [1]
 Autumn Term: The gathering, processing, presentation, and analysis of statistical data; linear correlation; and an introduction to statistical inference. Spring Term: Index numbers; time series; non-linear correlation; and other techniques useful in the social sciences. Course 17 is a prerequisite of Course 18. PROFESSOR GILLIM. Lec. M W 9. Lab. (2 hours) M W 3-5 or T 3:30-5:30.
- 19. Labor Economics.** 3 points. [9]
 The development of the labor movement and collective bargaining; the structure of labor markets, wages, and employment. May be counted towards the requirement in contemporary society. Open to all except freshmen. MR. O'CONNOR. T Th 2:10-3:25.
- 23. International Economics.** 3 points. [3]
 International trade and finance; foreign investment; barriers to trade; the foreign economic policy of the United States; trade agreements; and steps towards international economic cooperation and economic development. Prerequisite: Course 1-2 or permission of the instructor. PROFESSOR GILLIM. M W F 11.
- 25, 26. Contemporary Economic Issues.** 6 points. [5]
 A survey of the leading economic issues in present-day American life, including international as well as domestic questions. Lectures and discussion. Open to all except freshmen. PROFESSOR SAULNIER. M W 2:10-3:25.
- [27. Development of Economic Thought.** 3 points. PROFESSOR LEKACHMAN.
 Not given in 1961-62.]
- 28. Economic Analysis.** 3 points. [2]
 Covers the major topics of modern theory: prices, income distribution, modern demand theory, and Keynesian economics. Prerequisite: Course 1-2. MR. O'CONNOR. M W F 10.
- 30. The Economics of Underdeveloped Areas.** 3 points. [7]
 The economic, demographic, social and cultural forces affecting the economic growth of underdeveloped countries. Prerequisite: Course 1-2; Course 23 is strongly recommended. MR. O'CONNOR. T Th 10:35-11:50.
- 31. Comparative Economic Systems.** 3 points. [7]
 A description of the economic problems of the United States, England and Russia, and a comparison of the economic organization of these countries with abstract conceptions of capitalism and socialism. May be counted towards the requirement in contemporary society. Open to all except freshmen. MR. O'CONNOR. T Th 10:35-11:50.
- ★C3035x-C3036y. American Economic History.** 4 points.
 Economic development of the United States from Colonial times; examination of the course and consequences of territorial expansion, some regional aspects of the economy, and the general transition from a rural, agricultural society to an urban industrialism, from debtor to creditor status in the world economy. The changing roles of government, labor, and business, in terms of particular economic problems. Open with the permission of the instructor, to all except freshmen. PROFESSOR HACKER. T Th 10.

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★C3041x—C3042y. Monetary Economics. 6 points.

The development of ideas about money; the antecedents and present structure of money and banking in the United States; the Federal Reserve System and commercial banking; contemporary theories of money, credit, and economic stabilization; business cycles, inflation, and stagnation; recent monetary and fiscal policies and problems; international monetary relations and institutions. Prerequisite: Course 1–2 and the permission of the instructor. PROFESSOR BARGER. M W F 10.

51–52. Economics Seminar. 6 points. [0]

The senior essay. Reading, reports and discussion. Required for senior majors. PROFESSOR SAULNIER. W 3:30–5:30.

61, 62. Studies in Economics. Points: Variable. [0]

Additional credits may be obtained in this course for supervised work done in connection with some other course in economics. Special reports, a term paper, or the completion of supervised field work is required. The course may be repeated. MEMBERS OF THE DEPARTMENT.

★G4713x—G4714y. Financial Institutions. 6 points. [9]

A study of the functioning of the principal public and private agencies comprising the financial system of the United States, and of corporate financial policies, from the viewpoint of their relation to the flow of money payments and the process of capital formation. Open to seniors. Prerequisite: Course 1–2 and at least two other courses in economics. PROFESSOR SAULNIER. T 2:10–4.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open with the consent of the department and the major adviser to qualified seniors. A description of these courses will be found in the Announcements of the Graduate Faculties and the Graduate School of Business.

The Graduate Department of Economics offers economic analysis at several levels of difficulty. Students interested in pursuing this aspect of the subject beyond Course 28 or in registering for other graduate courses should consult their major advisers. Among the graduate courses are the following:

★G4313x—G4314y. Economic History of Europe, 1750-1914. 6 points.

PROFESSOR OHLIN. T Th 4:10.

★Economic Statistics G4411x—G4412y. Economic Statistics. 6 points.

PROFESSOR MINCER. Lec. T Th 12. Lab. Section I W 3. Section II W 4.

★G4601x—G4602y. Business Fluctuations. 6 points. PROFESSOR BURNS.

T Th 10.

★G4915x—G4916y. International Economic Relations and United States Foreign Economic Policy. 6 points. PROFESSOR HIRSCHMAN. Th 2:10–4.

EDUCATION

The following interdepartmental programs are supervised by the Committee on Education:

HELEN P. BAILEY, Dean of Studies, Chairman

¹JOSEPH G. BRENNAN, Associate Professor of Philosophy

VIRGINIA D. HARRINGTON, Associate Professor of History

TRACY S. KENDLER, Associate Professor of Psychology

RICHARD A. NORMAN, Assistant Professor of English

JOSEPHINE MAYER, Associate in Education, Director of the Teaching Programs

CHARLOTTE MUNDY, Instructor in Education

THE PRESIDENT, *ex officio*

These programs are open to qualified seniors whose applications are approved by the Committee on Education. They are designed to offer, within the context of a liberal arts curriculum, an introduction to the field of education. They afford a minimum of twelve points towards certification for teaching in New York State; full certification in New York and other states requires courses of study beyond the Barnard offerings.

The first two courses are directly concerned with teaching in elementary and secondary schools. The third course, the Colloquium, provides opportunity for discussion of educational topics of general interest and enrollment is not limited to those planning to enter the teaching profession. The programs do not constitute a major; they are taken in conjunction with a major in some other subject.

Before the end of the sophomore year students interested in teaching should confer with the Director of the Teaching Programs. Juniors who wish to apply for admission to one or the other of the programs should file application forms which may be obtained from the office of the Dean of Studies early in the spring term.

Education 1–2. Introduction to the Theory and Practice of Teaching in the Elementary School. 8 points. [9]

Observation and student teaching in public and private schools provide the basis for class discussions, demonstrations and lectures on methods, materials and principles of elementary school teaching. Prerequisite: Psychology 1x or 1y. MRS. MUNDY. A minimum of two full mornings a week and T 2–4.

Education 3–4. Introduction to the Theory and Practice of Teaching in the Secondary School. 8 points. [9]

This course affords observation and student teaching in public and private schools. The experiences of observation and participation furnish the basis for study of principles, methods, and materials for effective teaching in the secondary school. Prerequisite: Psychology 1x or 1y. MISS MAYER. A minimum of two full mornings a week and T 2–4.

¹ Absent on leave, Winter Term.

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Education 5-6. Colloquium on Educational Trends and Problems. [0]
4 points.

This course offers discussion of trends and problems in education, with particular emphasis on contemporary developments and experiments. Open to all seniors. Required for all students taking Education 1-2 or Education 3-4. Guest speakers with experience in the field of education will participate in the colloquium as well as members of the Barnard and Columbia faculties. PROFESSOR BRENNAN, Director. Th 2:10-3:30.

RELATED COURSES

English 27, 28. Public Speaking. 4 points. [0]

Autumn Term: Training in organization of materials and effective delivery; study of logical and psychological factors in persuasive speaking. Intended primarily for students who plan to teach. Spring Term: Composition and delivery of formal and informal speeches; participation in discussion groups; techniques of argumentation. PROFESSOR NORMAN. T Th 4.

History 43. The History of Education in the United States. 3 points. [4]

Development of education in the United States against the background of political, philosophical, religious, and scientific thought. Emphasis upon the social and intellectual forces which have shaped education. PROFESSOR HARRINGTON. M W F 1.

Philosophy 84. The Philosophy of Education. 3 points. [4]

The values and goals of education; a study of contemporary problems against their historical background. Selections from the works of Plato, Aristotle, Locke, Rousseau, Newman, and Dewey as well as contemporary critics. PROFESSOR BRENNAN. M W F 1.

Psychology 15. Psychology of Learning. 3 points. [3]

The chief problems, methods, and results in the study of learning. Among the topics emphasized are basic learning principles, theories of learning, retention, transfer of training, thinking and problem-solving. The relation of these basic concepts to educational problems is stressed. Prerequisite: Course 1x or the equivalent. Open to all except freshmen. PROFESSOR TIGHE. M W F 11.

Psychology 27. Developmental Psychology. I. 4 points. [2]

Study of the origin and development of psychological processes with particular emphasis on the period from infancy through early childhood. The laboratory consists of the observation and measurement of children's behavior in the nursery school. Prerequisite: Course 1x or the equivalent. PROFESSOR KENDLER and assistants. Lec. M W F 10. Lab. (2 hours) T W Th or F 2-4.

Psychology 27a. Developmental Psychology. I. 3 points. [2]

Lectures identical with those of Course 27. No laboratory work. Prerequisite: Course 1x or the equivalent. PROFESSOR KENDLER. M W F 10.

EDUCATION

Psychology 28. Developmental Psychology. II. 4 points. [2]

A continuation of the study of the development of psychological processes with emphasis on the period from early childhood through adolescence. The laboratory consists of the observation of both exceptional and normal children at various age levels and in a variety of educational and institutional settings. Prerequisite: Course 27. PROFESSOR KENDLER and assistants. M W F 10. Lab. (2 hours) to be arranged.

Psychology 28a. Developmental Psychology. II. 3 points. [2]

Lectures identical with those of Course 28. No laboratory work. Prerequisite: Course 27. PROFESSOR KENDLER. M W F 10.

Recreational Leadership 1. 2 points. [13]

This course is planned to give students an understanding and appreciation of the field of recreation. Lectures, discussions, practice and participation in activities, such as community music, arts and crafts, informal dramatics, story-telling, games.

Participation in the elementary teaching program and extracurricular activities related to recreation and social work is especially recommended for practice and experience. PROFESSOR HOLLAND. M W 4 and a third hour for field work.

ENGLISH

PROFESSORS: W. CABELL GREET, JOHN A. KOUWENHOVEN, DAVID A. ROBERTSON, JR., ³ELEANOR ROSENBERG, ELEANOR TILTON (Chairman)

ASSOCIATE PROFESSORS: LUCYLE HOOK, BARRY ULANOV

ASSISTANT PROFESSORS: BARBARA M. CROSS, RUTH MONTGOMERY KIVETTE (Director of English A), RICHARD A. NORMAN, ¹REMINGTON P. PATTERSON

ADJUNCT ASSISTANT PROFESSORS: TAMARA DAYKARHANOVA, HOWARD M. TEICHMANN

ASSOCIATE: ²INEZ NELBACH

ASSOCIATE IN POETRY: ROBERT PACK

INSTRUCTORS: ELIZABETH CAUGHRAN, JANICE FARRAR, MARCUS KLEIN, JOANN RYAN MORSE (Examinations Officer)

LECTURERS: MARJORIE HOUSEPIAN DOBKIN, SAMUEL DRAPER, ELIZABETH ENRIGHT, ANNE L. PRESCOTT, FULTON ROSS

ASSISTANT: MARGARET D. HANCE

OFFICERS OF COLUMBIA UNIVERSITY GIVING INSTRUCTION TO BARNARD STUDENTS:

PROFESSOR: JAMES L. CLIFFORD

ASSOCIATE PROFESSOR: BERT M-P. LEEFMANS

LECTURER: ALAN SCHNEIDER

A major in English: A student who plans to major in English should aim at these objectives: to have in mind the main outlines of literary history, to gain some knowledge of the development of the English language, to increase her ability to read with understanding and enjoyment the principal writers in English, to extend her familiarity with a chosen portion of the department's work (literature, writing, speech), and to improve her written and oral expression.

To qualify as an English major, a student will take the departmental preliminary test in the data of literary history during her sophomore year; she must pass it by November of her junior year. The test is given twice a year, in November and March. For preparation, C. G. Osgood's *Voice of England* and W. F. Thrall and Addison Hibbard's *Handbook to Literature* are recommended.

In consultation with her major adviser the student will arrange a program including (a) three half-year courses numbered from 50 to 69; (b) three half-year courses numbered from 70 to 89; (c) Course 91, 92 in both junior and senior years; (d) Course 93 or 93y in the junior year; (e) if she is specializing in literature, two sections of the Studies in Literature course, one in the autumn term of her senior year and the other in the spring term; (f) if she is specializing in speech or writing, no fewer than four half-year courses in her chosen field. In addition, all majors are urged to take the course in English history and at least one full year of work in a foreign literature. Any student planning to do

¹ Absent on leave, Autumn Term.

² Absent on leave, Spring Term.

³ Absent on leave, 1961-62.

graduate work should take into account the language requirements specified by graduate schools.

The major examination is in three parts. All majors must take both Part I, which requires critical comment on passages of prose and verse (three hours), and Part II, which requires an essay on a literary topic (three hours). Students who receive, before their final term in the major, a grade of C or better in one of the half-year courses numbered from 50 to 59 will *not* be required to take Part III, an examination in the history of the language (one and a half hours).

INTRODUCTORY COURSES

All transfer students and foreign students are required to take the English Proficiency Test before registering for any English course.

A1–A2. Reading and Writing. 6 points [0]

An approach to literary skills through intensive reading, regular assignments in composition, and discussion; frequent individual conferences with the instructor. Prescribed for freshmen except in a few special cases. The only other English courses open to freshmen are Courses 19, 20; 21, 22; 21y; 27, 28, any of which may be taken parallel to A1–A2. PROFESSOR KIVETTE and MEMBERS OF THE DEPARTMENT.

Sections of Course A1–A2 meet at the following hours: M W F 9, 10, 11, 1, 2. T Th 9:10–10:25, 10:35–11:50.

Room assignments will be posted outside Room 401 Barnard.

D1, D2. Speech. No credit. [0]

Individual speech examinations for freshmen and transfer students. Hours to be arranged.

WRITING

General prerequisite, Course A1–A2. Two writing courses may not be taken concurrently unless one of the two is Course 13 or 14. To elect any course in writing, a student must file a departmental registration form with MR. KLEIN.

1, 2. English Composition. 6 points. [0]

Designed especially for students who need additional training in composition at the first-year level. Emphasis on correct and clear expression, and on sound organization of materials. Students may take either term or both. Cannot be counted towards a major in English. ————— M W F 3.

3, 4. Structure and Style. 6 points. [0]

- I. Designed to give students an opportunity to experiment, according to their interests and needs, in varied forms: the story, the poem, the essay. Students may take either term or both. MR. KLEIN.
T Th 2:10–3:25.

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- II. Designed to give students training beyond the first-year level in the writing of expository prose. Frequent individual conferences. Students may take either term or both. PROFESSOR CROSS. T Th 2:10–3:25.

5, 6. Advanced Composition. 6 points [0]

The members of the class will keep daily journals and work up the material in finished papers, fiction and non-fiction. Students may take either term or both. PROFESSOR KOUWENHOVEN. M W F 2.

Note: The following courses are open only to those who have passed at least two terms of Courses 3, 4, 5, or 6 with a grade of B or better, or who have received written permission from MR. KLEIN.

7, 8. Experiments in Writing. 6 points. [0]

Advanced work in the writing and close reading of poems and other literary forms. Outside readings. Individual conferences on the written work. MR. PACK. M F 3:10–4:30.

11, 12. Story Writing. 6 points. [0]

Three short stories are written each term. Weekly individual conferences with the instructor, group discussion of technical problems, and some reading in the short story. Course 11 is normally prerequisite to Course 12. MISS ENRIGHT. T Th 2:10–3:25.

13, 14. Dramatic Writing. 4 or 6 points. [0]

The development of a dramatic situation in terms of short fiction, the theatre, television, motion pictures, and radio. PROFESSOR TEICHMANN. T Th 2:10–3:25.

SPEECH

To elect any course in speech, a student must secure the written permission of PROFESSOR NORMAN.

The work of English majors with a special interest in speech should include Course 21, 22 and two half-year courses in public speaking, discussion and debate, or oral interpretation. If possible, the student should also complete work in one of the courses in speech correction given at Teachers College. For courses important to students of speech, other than those listed below, see Courses 29–30; 39; 53y; 55, 56. The college dramatic club, *Wigs and Cues*, the college debating society, and the campus radio station, WKCR, offer practical experience.

19. Informal Speaking. 1 point. [0]

Practice in speaking to small groups; designed for students who wish help in making themselves understood and who need experience in thinking on their feet. PROFESSOR NORMAN. Th 9.

20. Informal Speaking. 1 point. [0]

Same as Course 19, but given in Spring Term. MISS CAUGHRAN. Th 9.

21, 22. Voice and Diction. 6 points. [0]

Autumn Term: Training in voice production and clear articulation; frequent conferences, use of the language laboratory. Spring Term: English dialects and standards of pronunciation; oral reports, reading aloud, and extemporaneous talks. Registration limited to 15 students. PROFESSOR NORMAN, MISS CAUGHRAN, and MISS NELBACH. Section I M W F 11. Section II M W F 1. Section III (Autumn Term only) T Th 10:35–11:50.

21y. Voice and Diction. 3 points. [0]

Same as Course 21, but given in the Spring Term. PROFESSOR NORMAN and ———. Section I M W F 11. Section II T Th 9:10–10:25.

23, 24. Oral Interpretation of Literature. 6 points. [0]

Study of literary texts for oral presentation: essay, ballad, lyric poetry, dramatic poetry, drama. MISS CAUGHRAN. M W F 2.

27, 28. Public Speaking. 4 points. [0]

Autumn Term: Study of the basic principles of speech making, with emphasis on evaluating and organizing material and on effectiveness of delivery. Intended primarily for students who plan to teach. Spring Term: Preparation, delivery, and criticism of speeches on current issues; techniques of argumentation and participation in discussion groups. PROFESSOR NORMAN. T Th 4.

DRAMA

Students who have a special interest in the drama will find a summary of activities and courses related to that field on page 64.

29–30. The Actor's Interpretation of Dramatic Literature. 4 points. [0]

The study and practice of the ways in which the actor illuminates and creates meaning. Students with speech problems should not take this course; they should instead take Course 21, 22 or consult Professor Norman. MME. DAYKAR-HANOVA. F 1–3.

★Theatre Arts R3001x–R3002y. Play Directing. 4 points.

Learning through a chosen play to define and practise the director's responsibilities towards actor, designer, producer, and audience. MR. SCHNEIDER. F 4–6.

★Theatre Arts R4053x–R4054y. Theatre History. 6 points.

Introduction to theatre history (directing, acting, scene design, theatre architecture) from the Greeks to the twentieth century. ——— F 6:10–7:50.

LANGUAGE AND LITERATURE

Courses marked thus § will count towards the literature part of the humanities requirement.

[39. The English Language: History and Use. 2 points. PROFESSOR GREET.

Not given in 1961-62.]

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§41, §42. Introduction to English Literature. 6 points. [12]

A general view of the scope and variety of English literature through study of selected writers and their works. Autumn Term: *Beowulf* through Milton. Spring Term: Dryden to the present. PROFESSOR LEEFMANS, MISS FARRAR, MR. KLEIN, and MRS. MORSE. Section I M W F 9 Section II M W F 11. Section III M W F 1.

§41y. Introduction to English Literature. 3 points. [4]

Same as Course 41, but given in the Spring Term. PROFESSOR PATTERSON. M W F 1.

43. Masterpieces of the Middle Ages. 3 or 4 points. [2]

Important works in the European literary tradition from 354 to 1485, studied in the original language or in translation. Reading knowledge of a foreign language required for work for the fourth point. MISS NELBACH. M W F 10.

53y. Anglo-Saxon Language and Literature. 3 points. [1]

An introduction to the study of Anglo-Saxon. Cannot be counted towards the literature requirement for the degree. PROFESSOR GREET. W F 9.

[§54. *The Beowulf.* 3 points. Prerequisite: Course 53. PROFESSOR GREET.
Not given in 1961-62.]

§55, §56. Chaucer and His Contemporaries. 6 points. [7]

Autumn Term: Chaucer's *Canterbury Tales*. Spring Term: *Troilus and Criseyde*, poetry and prose of the fourteenth century, including *Pearl*, *Gawain and the Green Knight*, *Piers Plowman*, selections from John Wiclif and others. Prerequisite: Course 53 or 55. PROFESSOR GREET. T Th 10:35–11:50.

§63. Shakespeare and the Elizabethan Stage. 3 points. [3]

Selected plays studied with emphasis upon dramatic construction. PROFESSOR HOOK. M W F 11.

§64. Introduction to Shakespeare. 3 points. [3]

The meaning, scope, and greatness of Shakespeare. PROFESSOR ROBERTSON. M W F 11.

§65. The Tudor Renaissance. 3 points. [4]

Humanism, the Reformation, the New World; historians, poets, and playwrights, with special attention to Edmund Spenser. PROFESSOR KIVETTE. M W F 1.

§66. Milton and Seventeenth-Century Literature. 3 points. [4]

The poetry of Jonson and the "classical" poets, Donne and the "metaphysicals," and some readings in prose; the major works of Milton. PROFESSOR KIVETTE. M W F 1.

[§69. *English Drama from Its Beginnings to 1642.* 3 points. PROFESSOR PATTERSON.

Not given in 1961-62.]

§70. English Drama from the Restoration to the End of the Nineteenth Century. 3 points. [2]

The comedy of manners, heroic tragedy, sentimental comedy and tragedy, ballad opera, bourgeois comedy, romantic tragedy, and melodrama. PROFESSOR HOOK. M W F 10.

§71, 72. The Novel. 6 points. [5]

Autumn Term: The English novel before 1900, including works by Austen, Brontë, Dickens, George Eliot, Hardy, and James. Spring Term: The contemporary novel, including works by Proust, Conrad, Lawrence, Mann, and Faulkner. PROFESSOR CROSS. M W F 2.

§73, §74. English Literature of the Eighteenth Century. 6 points. [8]

Autumn Term: Pope, Swift, and the Augustans. Spring Term: Dr. Johnson and his circle, and the pre-Romantics. PROFESSOR CLIFFORD. T Th 11. Th 2:30–3:20.

On Tuesday and Thursday mornings the class will attend the lectures of ★English G4301x–G4302y. The Thursday afternoon session will be a discussion at Barnard.

§75. English Poets of the Romantic Period. 3 points. [3]

The poetry of Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats, studied in the light of contemporaneous theories of poetry and of present-day criticism. ———. M W F 11.

§77. Victorian Poets. 3 points. [3]

Poems by Tennyson, Browning, Arnold, Rossetti, Meredith, Morris, and Swinburne. PROFESSOR ROBERTSON. M W F 11.

§78. The Victorian Age in Literature. 3 points. [5]

Literary expression of social, religious, and artistic thought. Among the writers considered are Carlyle, Mill, Arnold, Ruskin, and Pater. PROFESSOR ROBERTSON. M W F 2.

§79, §80. American Literature. 6 points. [2]

Autumn Term: The New England background, 1620-1889. PROFESSOR TILTON. Spring Term: Major writers, 1850-1950. MR. KLEIN. M W F 10.

82. Shapes of American Experience. 3 points. [1]

Studies of form and structure in literature and other arts. Each student will keep a notebook, summarizing and commenting upon the readings and other aspects of the work. Prerequisite: a year of American history or literature. PROFESSOR KOUWENHOVEN. M 9 (lecture), W 9–11 (discussion).

83. Modern Literature and the Allied Arts. 3 points. [9]

The focus and the vocabulary of the modern artist, examined and defined first in terms of literature, and then through a comparison with painting, music, the dance, the theatre, and the motion picture. Gallery trips and record-listening. PROFESSOR ULANOV. T Th 2:10–3:25.

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- 84. Style in Literature and the Other Arts.** 3 points. [7]
An investigation of the elements of form and content that identify a style in literature, music, and the visual arts. Some problems of continuity and diversity in the arts during the Middle Ages and the Renaissance, the Baroque and Romantic periods. Prerequisites: a year of advanced work in literature; a year of work in other arts; satisfaction of the language requirement. Written permission of the instructor required. PROFESSOR ULANOV. T Th 10:35–11:50.
- 85. Modern British and American Poetry.** 3 points. [5]
The thought and style of Hardy, Hopkins, Yeats, Auden, Thomas, Robinson, Frost, Stevens, Eliot, and Cummings; the literary movements with which they are associated. MR. PACK. M W F 2.
- 86. Drama from Ibsen to the Present.** 3 points. [9]
Reading of English, Continental, and American plays, of which the most important will be analyzed in class. PROFESSOR ULANOV. T Th 2:10–3:25.
- 87y. The American Romantics and Their Foreign Sources.** 3 points. [2]
Prerequisites: Course 79 and 3 points selected from Course 75, German 15, 16, French 27. Written permission of the instructor required. PROFESSOR TILTON. M W F 10.

COURSES FOR MAJORS

- 91, 92. The English Conference.** 2 points. [0]
The general subject is the practice of literature and drama. Members of the department will be joined by distinguished authors, critics, actors, and directors. This course is required of all English majors in both junior and senior years. It is not open to other students. PROFESSOR GREET and members of the department. Th 3:35–4:25.
- 93 (or 93y). Literary Criticism: Analysis and Evaluation.** 3 points. [0]
The purpose of the course is to provide experience in the reading of literary texts and some knowledge of conspicuous works in the history of literary criticism. Frequent short papers.
Course 93 (or 93y) is required of all English majors in the junior year. (Transfer students must take it in the Autumn Term.) Registration in each section is limited and students must file a departmental registration form with Mrs. Hance before completing their programs. PROFESSORS KIVETTE, HOOK, and ULANOV, MISS FARRAR and MRS. MORSE. Section I W 3–5. Section II W 3–5. Section III M 2–4.
- 97, 98 (or 98x, 97y). Studies in Literature.** 6 points. [0]
The course provides opportunity for intensive study in fields to which the student has been introduced through more general courses. All English majors who elect advanced work in literature, rather than in writing or speech, are required in their senior year to take two sections, one in the Autumn Term and the other in the Spring Term. Of these, one must be a section of 97 or 97y. The other may be

chosen from 97, 97y, 98, and 98x; qualified students may substitute 84 or 87y. Majors specializing in writing or speech may take one of the sections, if registration allows.

Registration in each section is limited. The written permission of both the major adviser and the instructor is required; blanks for this purpose will be supplied by Mrs. Hance and must be returned to her when complete.

97 (Autumn Term)

- I. American Literature. Prerequisite: Course 79 and 3 points selected from Course 80, History 9–10. PROFESSOR KOUWENHOVEN.
W 9:00–10:50.
- II. Dramatic Literature. Prerequisite: 6 points selected from Courses 63, 64, 69, 70, 86, of which 3 points must be in 63 or 64. PROFESSOR HOOK. W 3–5.
- III. Medieval Literature. Prerequisite: 6 points selected from Courses 53, 55, 56. PROFESSOR GREET. T 3–5.
- IV. Renaissance Literature. Prerequisite: 3 points selected from Courses 63, 64, 65, 66, 69. PROFESSOR KIVETTE. W 3–5.
- V. Victorian Literature. Prerequisite: 3 points selected from Courses 77, 78. PROFESSOR ROBERTSON. T 3:35–5:25.

97y (Spring Term)

- VI. Elizabethan and Jacobean Drama. Prerequisite: 3 points selected from Courses 63, 64, 69. PROFESSOR PATTERSON. W 3–5.
- VII. Neoclassical Literature. Prerequisite: 3 points selected from Course 73, French 23, 24, 25, 26. MRS. MORSE. M 3–5.
- VIII. Romantic Literature. Prerequisite: 3 points selected from Course 75, French 28, German 15, 16. ————. W 3–5.

98 (Spring Term)

- I. Modern Poetry. Prerequisite: 6 points selected from Courses 75, 77 (formerly 78), 85, French 31, German 31, Italian ★W3535x–W3536y, Spanish 27, 28. MR. PACK. W 3–5.

98x (Autumn Term)

- II. Shakespeare, focussing upon *Hamlet*. Prerequisite: Course 63 or 64, and some familiarity with Greek tragedy. PROFESSOR LEEFMANS.
W 3–5.

FRENCH

PROFESSOR: LEROY C. BREUNIG (Chairman)

ASSOCIATE PROFESSORS: HELEN PHELPS BAILEY, ANDRÉ MESNARD

ASSISTANT PROFESSORS: ELIZABETH CZONICZER, TATIANA GREENE,
RENÉE J. KOHN

ASSOCIATE: HELEN M. CARLSON

INSTRUCTOR: RENÉE GEEN

LECTURERS: SERGE GAVRONSKY, ANTOINETTE NOEL HOFFHERR, LOUISE JEFFERSON, PATRICIA TERRY

OFFICER OF COLUMBIA UNIVERSITY GIVING INSTRUCTION IN BARNARD COLLEGE:
PROFESSOR: JEANNE VARNEY PLEASANTS

A major in French has two main objectives: (a) to perfect fluency in the written and the spoken language, and (b) to develop appreciation of the literature and culture of France.

A student majoring in French must take an advanced composition course, 13, 14 (or 11–12 and 14); an advanced oral course, 17–18; and three literature courses in addition to Course 7–8. The Special Reading Seminar, 37–38, may count as one of the literature courses and is particularly recommended for senior majors. Seniors with honor grades may elect the Senior Thesis, 39–40, as one of their literature courses.

Other fields: Courses in history, art history, or other fields which vary with the interest of the student should be elected after consultation with the department.

The major examination consists of a six-hour section, written mainly in French, followed by a half-hour oral section.

Foreign language requirement for the degree: All new students who intend to satisfy the foreign language requirement in French must take a placement examination before registration. This examination tests the student's knowledge of grammar, her ability to comprehend written and spoken French, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others may do so by completing French 5, 6 with a minimum grade of C–, or French 5 alone with a minimum grade of B+.

LANGUAGE COURSES

1–2. Elementary Full-Year Course. 8 points. [14]

Grammar, reading, composition. Work in the language laboratory is required. PROFESSOR MESNARD and MISS JEFFERSON. Section I M T W Th F 9. Sections II and III M T W Th F 11.

3, 4. Intermediate Course. 6 points. [14]

Review of grammar and syntax. Translation, reading, oral practice, free composition. Work in the language laboratory is required. Prerequisite: Course 1–2 or two years of high school French and an appropriate score on the placement

examination. PROFESSOR MESNARD, MRS. HOFFHERR, DR. TERRY and Miss JEFFERSON.

Sections I and II M W F 10. Section V M W F 2.

Sections III and IV M W F 12. Section VI T Th 10:35—11:50.

4x. Intermediate Course. Part II. 3 points. [2]

The equivalent of Course 4 but given in the Autumn Term: Prerequisite: Course 3 or three years of high school French and an appropriate score on the placement examination. ————, Sections I and II M W F 10.

5, 6. Third-year Course. 6 points. [14]

The use of modern literary texts as a basis for improving the comprehension of written and spoken French. Translations into English. Compositions and oral practice. Work in the language laboratory is required. Prerequisite: Course 3, 4 or three years of high school French and an appropriate score on the placement examination. PROFESSORS BREUNIG, MESNARD and CZONICZER, Miss CARLSON, and MRS. GEEN.

Sections I and II M W F 9.

Sections VI, VII, VIII M W F 12.

Sections III, IV, V M W F 11.

5y. Third-year Course. Part I. 3 points. [2]

The equivalent of Course 5 but given in the Spring Term. Prerequisite: Course 4 or 4x. ————, Sections I and II M W F 10.

6x. Third-year Course. Part II. 3 points. [4]

The equivalent of Course 6 but given in the Autumn Term. Prerequisite: Course 5, 5y, or three years of high school French and an appropriate score on the placement examination. PROFESSOR KOHN and MR. GAVRONSKY. Sections I and II M W F 1.

11–12. Review of Grammar and Composition. 4 points. [0]

Intended primarily for those taking literature courses who desire a review of grammar and syntax. There will be translation from English into French and weekly compositions. Open to students of all classes on written permission of the instructor. Hours for consultation to be arranged. PROFESSOR MESNARD.

13. Advanced Composition. 2 points. [0]

Translation from English into French. Composition, preparation of critical essays and articles. Open only on written permission of the instructor. PROFESSOR KOHN. M W 3.

14. Advanced Translation. 2 points. [10]

Translation from French into English of various styles of prose and poetry. Open only on written permission of the instructor. PROFESSOR BREUNIG. M W 3.

15–16. Oral French, Intermediate Full-Year Course. 4 points. [0]

Pronunciation, recitation, conversations based on selected readings. Work in the language laboratory is part of the course. Prerequisite: Course 5 or the equivalent, and the written permission of the department. MRS. GEEN and MRS. HOFFHERR. Section I M W 2. Section II M W 3.

BARNARD COLLEGE

- 17-18. French Phonetics.** 6 points. [0]
Study of spoken French: conversational and literary; aural-oral practice supplemented by analysis of the structure (content and form) of selected passages from French literature. Work in the language laboratory is part of the course. Open to students on written permission of the instructor. Limited to 20 students. PROFESSOR PLEASANTS. M W F 9.

LITERATURE COURSES

The ability to use French both in speaking and in writing is a requirement for all literature courses.

- 7-8. Masterpieces of Literature from the Middle Ages to the Twentieth Century.** 6 points. [14]
Lectures in French on the history of French literature, analysis of texts, recitations, discussions. Essays and reports on outside reading. Autumn Term: *La Chanson de Roland* through Molière. Spring Term: Voltaire through Proust. Prerequisites: Course 6 or a satisfactory score on the French placement test; or Course 5 with a grade of at least B+. Other students from Course 5 and, exceptionally, from Course 4, must have the written recommendation of their instructor. PROFESSOR GREENE, MRS. HOFFHERR, and MR. GAVRONSKY. Section I M W F 1. Section II M W F 2. Section III T Th 9:10-10:25.
- 7y. Masterpieces of Literature from the Middle Ages to the Twentieth Century. Part I.** 3 points. [2]
The equivalent of Course 7 but given in the Spring Term. Open only to students who intend to take Course 8x the following fall. PROFESSOR KOHN. M W F 10.
- 8x. Masterpieces of Literature from the Middle Ages to the Twentieth Century. Part II.** 3 points. [3]
The equivalent of Course 8 but given in the Autumn Term. Prerequisite: Course 7y or the equivalent. PROFESSOR BREUNIG. M W F 11.
- [9, 10. Introduction to French Civilization.** 6 points. PROFESSOR MESSNARD.
Not given in 1961-62.]
- 21, 22. French Literature in the Middle Ages and the Renaissance.** [4]
6 points.
Study of selected works of literature with stress on the relationship to the history and art of the periods. Prerequisite: Course 7-8, or the written permission of the instructor. MISS CARLSON. M W F 1.
- 23, 24. French Literature in the Seventeenth Century.** 6 points. [3]
Detailed study of selected masterpieces of the classical writers. The nature of French classicism. Prerequisite: Course 7-8 or the written permission of the instructor. PROFESSOR KOHN. M W F 11.
- [25, 26. French Literature in the Eighteenth Century.** 6 points.
Not given in 1961-62.]

FRENCH

- 27, 28. French Literature in the Nineteenth Century.** 6 points. [6]
Representative works of the principal authors and literary movements from early Romanticism through Symbolism. Autumn Term: Fiction and drama. Spring Term: Poetry. Prerequisite: Course 7–8 or the written permission of the instructor. PROFESSOR BAILEY. T Th 9:10–10:25.
- [29. French Prose in the Twentieth Century.** 3 points.
Not given in 1961-62.]
- 30. French Theatre in the Twentieth Century.** 2 or 3 points. [2]
Modern dramatic interpretations of themes from Greek tragedy and mythology. Prerequisite: Course 7–8 or the written permission of the instructor. PROFESSOR BREUNIG. M W 10.
- 32. Materials and Techniques of French Poetry.** 3 points. [9]
A study of the language of poetry in France: themes, ideas, emotion (the materials); rhyme, meter, imagery, etc. (the techniques); from early poems in fixed form to the “automatic writing” of the surrealists. Prerequisite: Course 7–8 or the written permission of the instructor. PROFESSOR GREENE. T Th 2:10–3:25.
- *37–38. Special Seminar.** 4 to 6 points. [0]
Projects organized around a specific theme in French literature: The evolution as well as the deep tradition of *éducation*, as seen by the masters of French literature from Rabelais to Jules Romains. PROFESSOR KOHN. M W 2.
- 39–40. Senior Thesis.** 6 points. [0]
Research into a precise topic of French literature and the preparation of a long essay. Open to seniors with honor grades. The essay satisfies in part the major examination requirement. PROFESSOR BREUNIG and MEMBERS OF THE DEPARTMENT. Hours for consultation to be arranged.
- *G4025x. French Poetry in the Twentieth Century.** 3 points. [14]
Formerly Course ★125. French Poetry from Symbolism to the present with analyses of significant poems since 1885. PROFESSOR BREUNIG. W 4:10–6.
- The following courses at Columbia College are open to Barnard students:
- *C3513y. Montaigne.** 2 points.
Formerly Course ★R43. PROFESSOR FRAME. T Th 10.
- *C3541y. Voltaire.** 2 points.
Formerly Course ★50. PROFESSOR SAREIL. T Th 2.
- *C3580x. Gide.** 2 points.
Formerly Course ★59. PROFESSOR LEEFMANS. M F 1.
- *C3665x, C3666y. The French Novel in the Nineteenth and Twentieth Centuries.** 6 points.
Formerly Course ★65, 66. MR. SIMON and PROFESSOR LEEFMANS. T Th 11–12:15.

GEOLOGY AND GEOGRAPHY

PROFESSOR: HENRY S. SHARP (Chairman)

ASSOCIATE PROFESSOR: ¹LEONARD ZOBLER

INSTRUCTOR: JANE LANCASTER

ASSISTANT: —————

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSORS: CHARLES H. BEHRE, RHODES W. FAIRBRIDGE, WILLIAM A. HANCE, HERMAN F. OTTE

ASSOCIATE PROFESSORS: RALPH J. HOLMES, JOHN IMBRIE

GEOLOGY

A major in geology is designed to acquaint the student with the chief divisions of the science; to give her a basic fund of knowledge concerning the structure and history of the earth, of the materials composing it, of the record of evolving life contained within its crust, and of the landforms developed upon its surface. Students will be given some first-hand outdoor acquaintance with geological phenomena, and will acquire some knowledge of the methods of geological research and the professional geologist's point of view towards the earth.

After Course 1–2, students majoring in geology will take Courses ★W1111x–W1112y; 19; ★W4661x, and 60 in partial fulfillment of the major requirement. With the permission of the department six points of calculus or of botany, chemistry, physics, or zoology may be counted towards the major. Field experience in some such course as Geology of the Rocky Mountains, offered in Wyoming each summer by Columbia University, is desirable. Remaining points for the major may be selected from the offerings of this department and the Columbia Department of Geology. Students planning to enter graduate school will take courses in related fields of science; others may plan their science programs in accordance with their needs. All geology majors are urged to take well-balanced programs in the humanities and social sciences and to keep their concentration in geology at a minimum.

The major examination in geology will consist of the Graduate Record Examination and a three-hour written examination.

GEOGRAPHY

Geography examines the role of natural resources in contemporary society. It considers such problems as the quality and sufficiency of mineral and organic raw materials, food supplies in relation to population growth, changing technology of production and distribution, locational patterns of economic activity, urban and regional planning, and the peculiarities of resource problems in the developed and underdeveloped nations.

¹ Absent on leave, Spring Term.

GEOLOGY AND GEOGRAPHY

A major should acquire an understanding of the way in which modern society rests on its natural resource endowment. The following courses are required: Courses 1; 3, 4; 12; 15E or 15W; 17; 59 or 60; Geology 1, 2 and at least one additional course in geology; Economics 1–2. Botany is recommended as the biological science. A judicious selection of courses from anthropology, government, history, and sociology is suggested. Students planning careers in teaching, research, government, or business should consult their adviser early.

Majors may concentrate on foreign areas by taking related courses in the history, language, and culture of their area of interest. Special programs may be planned for those who expect to work abroad or take the Foreign Service examination. Barnard courses may be supplemented, subject to approval, by regional studies on Asia, Africa, Europe, and Latin America offered by Columbia University.

The major examination in geography will be fulfilled by an examination on the use of maps and the completion of an acceptable senior essay.

NATURAL RESOURCES

Because of the increasing pressure of human population for space, food, and energy, a joint major in the Conservation of Natural Resources is offered by the Departments of Botany and Geology-Geography. Students concerned with the future well-being of the United States and of man in general should read the announcement of this program, under Interdepartmental Offerings, page 47.

GEOGRAPHY

1, 2. Physical Geography. 6 points. [7]

Introduction to the earth sciences. Autumn Term: The size and shape of the earth, the geographic system of earth coordinates (latitude and longitude), cartography and the use of maps, earth-sun relations and time, celestial navigation, descriptive meteorology and climatology. Spring Term: The crust of the earth, mineral and rock identification, evolution of landforms, physiographic regions, oceanography, hydrology, soils, mineral deposits. These courses satisfy the non-laboratory physical science requirement, and are especially valuable for prospective teachers. They may be taken independently and in either order for credit. Students who have had Geology 1 should not take Course 2. PROFESSOR ZOBLE and MISS LANCASTER. T Th 10:35–11:50.

3, 4. World Resources and Production. 6 points. [3]

Principles of economic and political geography and the study of natural resources as a basis for economic growth. Autumn Term: Natural resource-use theory and the organization and productivity of various agricultural systems in the world's climatic regions and their impact on living standards, food supplies, population pressure, trade, and political stability. Special attention is given to the underdeveloped nations. Spring Term: The impact of the distribution and utilization of energy and mineral resources and production technology on the development of manufacturing, regional and urban growth, and economic diver-

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sification. Special attention is given to raw material supplies, planning programs, political conflicts, and trade patterns in the developed and underdeveloped areas. These courses satisfy the contemporary society requirement and are especially valuable for prospective teachers. They may be taken in either order and independently for credit. PROFESSOR ZOBLER and MISS LANCASTER. M W F 11

[12 (also ★W4312y). Natural Resources and Man. 3 points. PROFESSOR ZOBLER.

Not given in 1961-62.]

[15E. Regional Resources of Eastern United States. 3 points. PROFESSOR ZOBLER.

Not given in 1961-62.]

15W. Regional Resources of Western United States. 3 points. [9]

Application of the principles of regional geography to an examination of the regional economies of Western U. S. The impact of the natural resource endowment, history, and other production factors on economic development is studied. Attention is given to local and national resource problems, as water shortages, land use, hydropower, irrigation, minerals, agricultural surpluses and to the role of each region in the nation. Growth trends, including population, are viewed as a reflection of the regional resource mix and factor mobility. Alternates with Course 15E. It fulfills in part the contemporary society requirement. Not open to freshmen. PROFESSOR ZOBLER. T Th 2:10-3:25.

17. Cartography. 3 points. [13]

Principles governing the choice of projection, scale, and grid in map making; the use of drafting equipment; methods of depicting relief; use of aerial photographs; evaluation of source material. Prerequisite: One year of geology or geography. MISS LANCASTER. M W 12.

★C3042x. Economic Geography of Latin America. 3 points.

Formerly Course ★42. A study of South America, Central America, and the West Indies in terms of the regional pattern of the economy in relation to physical and cultural features. The resources and the current efforts for diversification are examined and attention is given to the importance of foreign trade as a factor in economic development. ————. T Th 11-12:15.

[★C3052y. The Economic Geography of Asia. 3 points.

Formerly Course ★52.

Not given in 1961-62.]

[★C3071x. African Problems and Potentialities. 3 points. PROFESSOR HANCE. Formerly Course ★71.

Not given in 1961-62.]

[★C3082y. The Regional Geography of Europe. 3 points. PROFESSOR HANCE. Formerly Course ★82.

Not given in 1961-62.]

GEOLOGY AND GEOGRAPHY

★W3092y. Seminar in Geography. 3 points.

Formerly Course 59. Research techniques in geography. Preparation of major papers on selected topics. Satisfies the Barnard requirement for senior majors.

----- W 2:10-4.

GEOLOGY

1. Physical Geology. 4 points. [2]

The composition and structure of the earth, the internal and external forces acting upon it, and the surface features resulting. Laboratory includes study of common rocks and minerals and of contour maps as means of depicting topography. Course 1 makes a good unit for students taking other sciences and wishing to gain some knowledge of the content of geology. With Course 2 it satisfies the laboratory science requirement. PROFESSOR SHARP and MISS LANCASTER. Lec. M W F 10. Lab. (2 hours) M 2-4; T 9-11; T 3:35-5:25; W 3-5; Th 8:35-10:25; Th 2-4.

2. Historical Geology. 4 points. [2]

The history of the earth and of the life upon it from the beginning to modern times. The laboratory and assigned work include study of invertebrate fossils and of geologic maps and structures, museum trips, short field trips, and a required one-day field trip. Prerequisite: Course 1. PROFESSOR SHARP and MISS LANCASTER. Lec. M W F 10. Lab. (2 hours) M 2-4; T 9-11; T 3:35-5:25; W 3-5; Th 8:35-10:25; Th 2-4.

★W1111x-W1112y. Elements of Mineralogy and Petrology. 3 points.

Formerly Course ★11-12. The fundamentals of mineralogy and petrology. Autumn Term: Crystallography, the physical properties, origin, and the economic and geologic importance of the common minerals, with emphasis on the use of physical properties and chemical testing in mineral identification. Spring Term: Primarily a basic course in petrology: the properties and relations of the rock-forming minerals, and the genesis, mode of emplacement, and alteration phenomena of the major rock types-igneous, metamorphic, and sedimentary. The laboratory work is devoted to the study of the mineral make-up and physical properties of rocks, their identification and classification. Prerequisite: Course 1. PROFESSOR HOLMES. Lec. T Th 11. Lab. T 2:10-4.

19. Structural Geology. 3 points. [5]

Lectures, readings, and problems on folds, faults, and other geologic structures, and on geologic maps and sections. One or more voluntary field trips. Prerequisite: Courses 1 and 2 or the equivalent. Courses 19 and 27 are ordinarily given in alternate years. PROFESSOR SHARP. M W F 2.

★W4661x. Introduction to Paleontology. 3 points.

Formerly Course ★21. A systematic survey of the morphology, taxonomy, and geologic history of groups of organisms commonly found as fossils. Prerequisite: Courses 1 and 2. PROFESSOR IMBRIE. Lec. M W 11. Lab. F 2:10-4.

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★W4226y. Experimental Marine Sedimentology. 3 points.

Formerly Course ★26. Training in theory and techniques of modern marine sedimentology, especially the chemical processes associated with deposition and diagenesis. PROFESSOR FAIRBRIDGE. M W 3 Lab. M or W 3-5.

[27. Principles of Geomorphology. 3 points. PROFESSOR SHARP.

Courses 19 and 27 are ordinarily given in alternate years.

Not given in 1961-62.]

[30 (also ★W4330y). Geomorphology of the Western United States. 3 points.

PROFESSOR SHARP.

Given in triennial sequence with similar courses on the eastern United States and Europe.

Not given in 1961-62.]

[32 (also ★W4332y). Geomorphology of the Eastern United States. 3 points.

PROFESSOR SHARP.

Not given in 1961-62.]

34 (also ★W4334y). Geomorphology of Europe. 3 points. [5]

Lectures, map study, and readings on the geomorphic divisions of Europe. Given in triennial sequence with similar courses on the eastern and western United States. Prerequisite: One year of geology. PROFESSOR SHARP. M W F 2.

[★W4053x. Geology of the New York Region. 1 point. PROFESSOR FAIRBRIDGE.

Not given in 1961-62.]

60. Seminar in Geology. 3 points. [0]

A seminar course with discussions, problems, and readings on various topics in geology. Prerequisite: A year of geology. Open to juniors and seniors. PROFESSOR SHARP. W 3-5.

GERMAN

ASSISTANT PROFESSORS: WILLY SCHUMANN, LOUISE G. STABENAU (Chairman)
ASSOCIATE: GERTRUD SAKRAWA
INSTRUCTOR: URSULA L. JARVIS

A major in German is designed to provide the student with (1) the ability to comprehend and interpret both written and spoken German, (2) a fair amount of ease in expressing herself in German, in speaking as well as in writing and (3) a fundamental understanding of German literature and civilization.

A student majoring in German is expected to take 28 points of work above the elementary level. Normally these should include Courses 5, 6; 9, 10; 15, 16; 25, 26 or 27, 28; 31; 35; 45, 46; 61, 62.

Allied subjects: In consultation with their major adviser students should select courses in other languages and literatures, music, art history, history, philosophy, and religion.

Students majoring in other fields in which a reading knowledge of German is suggested should plan to take at least two years of college German.

The major examination consists of two three-hour written sections and an oral section of at least one hour.

Foreign language requirement for the degree: All new students who intend to satisfy the foreign language requirement in German must take a placement examination before registration. This examination tests the student's knowledge of grammar, her ability to comprehend written and spoken German, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others may do so by completing German 5, 6 with a minimum grade of C-, or German 5 with a minimum grade of B+.

LANGUAGE COURSES

German is the language of the classroom, as far as possible, in all courses beyond Course 1. All students in the beginners' course will be expected to use the facilities of the language laboratory.

1-2. Elementary Full-Year Course. 8 points. [15]
Elements of grammar, easy reading, written and oral practice. PROFESSORS SCHUMANN and STABENAU, MISS SAKRAWA and MRS. JARVIS. Section I M W F 9. Sections II and III M W F 11. Section IV M W F 12. Required oral sections may be chosen as follows: Section I T Th 9. Sections II and III T Th 11. Section IV T Th 2.

3, 4. Intermediate Course. 6 points. [15]
Intensive and extensive reading of nineteenth and twentieth century literature. Frequent short compositions in German. Grammar review during autumn term. Prerequisite: Course 1-2 or a satisfactory grade on the placement examination.

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PROFESSORS STABENAU and SCHUMANN and MISS SAKRAWA. Sections I and II
M W F 12. Section III M W F 1.

3a, 4a. Intermediate Oral Practice. 2 points. [0]

Conversation as extension of the work in Course 3, 4. Especially recommended to students preparing for courses in literature. Written permission of the instructor required. PROFESSOR STABENAU. T Th 9.

9, 10. Advanced Practice. [0]

Required of all majors in their junior and senior years. Recommended to all students in advanced literature courses. Aimed at perfecting oral and written expression. Individual conferences with instructor and work in the language laboratory. PROFESSOR SCHUMANN and MRS. JARVIS. Hours to be arranged.

LITERATURE COURSES

All courses are conducted in German except Course 55, 56.

5, 6. Introduction to the Study of German Literature from the Eighteenth Century to the Present. 6 points. [15]

Intensive reading and discussion of significant works in prose, poetry and the drama. Short papers and oral reports in German. Occasional practice in the art of translation. Prerequisite: Course 4 or a satisfactory grade on the placement examination. MISS SAKRAWA and MRS. JARVIS. Section I M W F 9. Section II M W F 10.

15, 16. The Age of Goethe. 6 points. [5]

Intensive study of selected works representative of *Sturm und Drang*, and of the classical and romantic periods. Lectures and discussions. Prerequisite: Course 5, 6 or permission of the department. MRS. JARVIS. M W 2:10–3:25.

25, 26. German Drama in the Nineteenth and Twentieth Centuries. [8]
4 or 6 points.

Reading and discussion of the major works of the most representative dramatists. Autumn Term: Schiller, Kleist, Grillparzer, Hebbel. Spring Term: Büchner to Brecht. Prerequisite: Course 5, 6 or permission of the department. PROFESSOR STABENAU. T Th 11.

[27, 28. Prose Fiction from the Eighteenth Century to the Present. 6 points.
MISS SAKRAWA.
Not given in 1961-62.]

31. German Lyric Poetry. 2 or 3 points. [9]

Study of the lyric genre in German literature. Analysis of representative works. Group discussions and written reports. MISS SAKRAWA. T Th 2. Hour for third point to be arranged.

[35. Goethe's Faust. 2 or 3 points. PROFESSOR STABENAU.
Not given in 1961-62.]

GERMAN

[45, 46. **History of German Literature from the Earliest Times to the Eighteenth Century.** 6 points. PROFESSOR SCHUMANN.
Not given in 1961-62.]

[55, 56. **German Literature in English Translation.** 6 points. MRS. JARVIS.
Not given in 1961-62.]

61, 62. **Seminar.** 6 points. [0]
Autumn Term: Required of and usually open only to seniors majoring in German. Introduction to methods of research in Germanics. Intensive study of Heinrich von Kleist. Prerequisite: permission of the department. Spring Term: Open to qualified students upon invitation of the department. Individual research leading to a thesis in English or German. The thesis will replace one part of the major examination. PROFESSOR SCHUMANN. T Th 3:10-4:25.

COLUMBIA COLLEGE COURSES

Some upper level courses can be found at Columbia during the years when they are not offered at Barnard.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified seniors with the consent of the department and the major adviser. A description of these courses will be found in the Announcement of the Graduate Faculties.

GOVERNMENT

PROFESSORS: PHOEBE MORRISON (Chairman), THOMAS P. PEARDON

INSTRUCTORS: DEMETRIOS CARALEY, JIMMYE ELIZABETH KIMMEY

LECTURERS: ¹JIRINA M. EMERSON, ELIZABETH STABLER

ASSISTANT: MARIAN S. MARKOW

The department has defined a major in government as preparing a perceptive citizen for her role in the modern world, whether she intends to become a civil servant, a teacher or a lawyer, or to engage in any similar activity.

The foundation for a major in government is Course 1, 2 and Course 45, 46. In addition a student majoring in government must take one of the fundamental courses: international relations (11, 12), modern political movements (8), the American constitutional system (25, 26), or political theory (31, 32). In her senior year, in order more adequately to explore techniques of investigation and to have an opportunity for more specialized work, she must take one section of the senior seminar. As part of the work of the senior seminar, she is required to write a senior essay, to be completed to the satisfaction of the department.

These requirements are so drawn as to permit a major in government, with the assistance of her adviser, to plan a program which will place special emphasis on particular interests, such as American government, international relations, or the political institutions of Western Europe.

A student may apply through appropriate channels for permission to take any course offered in the department, for additional credit, after she has secured the permission of the instructor in that course, except Course 1, 2. Such additional credit will be based either upon a special program of reading or the preparation of a special report.

Other social sciences: In view of the essential unity of the social sciences, every student majoring in government is required to take courses amounting to 12 points distributed between two of the following departments as selected in conference with the adviser: anthropology, economics, geography, history, philosophy, psychology, religion, sociology.

See also Other Interdepartmental Offerings, page 47 and International Relations, page 44.

FUNDAMENTAL COURSES

1, 2. Modern Constitutional Democracies. 6 points. [15]

Governmental institutions, popular representation and the theory of modern democracy in the United Kingdom, the United States, Canada, and France, with illustrative material from Australia and India. Together these courses satisfy the requirement in contemporary society. Course 1: PROFESSOR PEARDON and MISS MARKOW. Course 2: PROFESSOR MORRISON and MISS MARKOW.

Section I Lec. M W F 11. Section II Lec. M W 2:10-3:25. Conference hours: M 1; T 2; W 1; Th 9, 11, 2; F 9, 11.

¹ Absent on leave, 1961-62.

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- 8. Modern Political Movements.** 3 points [7]
Recent changes in modern politics, such as the weakening of liberal democracy, the emergence of communism as a major force, the rise of fascism, and the growth of Christian democracy. Prerequisite: Course 1, 2 or History 1-2. PROFESSOR PEARDON. T Th 10:35-11:50.
- 9. American Political Parties and Practices.** 3 points. [2]
The role of the party system, interest groups, and public opinion in American politics. First-hand observation of political campaigns, legislative bodies, and civic organizations is required. MR. CARALEY. M W F 10.
- 10. American State and Municipal Government.** 3 points. [2]
Patterns of state and municipal government and politics. Particular attention is given to the political institutions of New York City and New York State. Field work is required. MR. CARALEY. M W F 10.
- 11. International Relations.** 3 points. [1]
An analysis of the setting and basic factors in contemporary world politics. Open to all except freshmen. ————. M W F 9.
- 12. International Organization.** 3 points. [1]
An analysis of the proposals for reconstructing a stable international society. The experience of The Hague Conferences, the League of Nations, and the Organization of American States, as well as that of the United Nations. Open to all except freshmen. ————. M W F 9.
- 25, 26. The Constitution of the United States.** 6 points. [6]
Problems in the administration of justice and basic constitutional concepts are studied by the use of materials on constitutional interpretation. Designed for students of American government as well as for the pre-law candidate. Prerequisite: Course 1, 2 or History 9-10, or the equivalent. PROFESSOR MORRISON. T Th 9:10-10:25.
- 27, 28. The Administrative Process.** 6 points. [7]
Analysis of the administrative process in complex organizations with primary emphasis on the structure, operation, and politics of the executive branch of the government. Cases of actual administrative decision-making are studied. MR. CARALEY. T Th 10:35-11:50.
- 31, 32. The History of Political Thought.** 6 points. [4]
Major political writings from ancient to modern times. Political doctrines such as democracy, liberalism, socialism, fascism, and communism. Emphasis on a comparison of basic ideas and on the relationships between theories and contemporary historical circumstances. Prerequisite: Course 1, 2 or History 1-2. MISS STABLER. M W F 1.
- 36. British Government.** 3 points. [15]
Rules and institutions of the British cabinet system; parties and party politics; recent problems and policies. Prerequisite: Course 1, 2 or History 12. PROFESSOR PEARDON. W 4-6.

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SPECIALIZED COURSES

- 15. The Soviet Union.** 3 points. [4]
Analysis is made of Soviet politics before and after Stalin; the current structure of Soviet ideology; the structure of the Party and the government; instruments for mobilizing mass support; the impact of politics on the economy, arts and the round of daily life; the limits of totalitarian control. Prerequisite: Course 1, 2 or History 1-2. ————. M W F 1.
- [16. The Communist Orbit.** 3 points. MRS. EMERSON.
Not given in 1961-62.]
- 17. Introduction to International Law.** 3 points. [9]
Such problems as recognition of states, legal status of dependent territories, control of war and new weapons, changing concepts of neutrality and other selected issues are studied through cases and state practice. Prerequisite: Course 11. PROFESSOR MORRISON. T Th 2:10-3:25.
- 18. The United States in Contemporary World Politics.** 3 points. [9]
Important decisions in American foreign policy since World War II. Discussion of the United Nations, the movement towards European integration, the problem of foreign aid, and the creation of regional defense systems. Open to juniors and seniors. MISS STABLER. T Th 2:10-3:25.
- 20. The Soviet Union in World Affairs.** 3 points. [9]
Study is made of Soviet foreign policy since 1945, with special emphasis on the relation between Soviet diplomacy and international communism, the expansion of the "camp of socialism," and recent penetration of the underdeveloped areas. Prerequisite: Course 1, 2 or History 1-2. ————. T Th 2:10-3:25.
- 45, 46. Junior Readings.** 4 points. [0]
Students will read selected classics. The reading lists for this course should be obtained by majors at the end of their sophomore year. Required of all majors in their junior year; open only to majors. MISS STABLER. M 3 or T 11 or W 3.
- 61, 62. Senior Seminar.** 8 points. [0]
Discussions and conferences on the topic of the senior essay.
Section I PROFESSOR PEARDON. T 4-6.
Section II PROFESSOR MORRISON. W 4-6.
Section III MR. CARALEY. Th 4-6.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified seniors with the consent of the department and the major adviser. Ordinarily a minimum of 12 points of government at Barnard in addition to a major interest in the social sciences is required as a prerequisite. These courses are described in the Announcement of the Graduate Faculties. Attention is drawn to the following:

GOVERNMENT

★G4241x. The Political Setting of Public Administration. 3 points.

The fundamental relationships of administration. How administration is conditioned by the political and legal context of democratic government. The constitutional bases of administration, the representative and managerial roles of chief executives and the staffs, the political and managerial aspects of administrative structure, the dilemmas of legislative oversight and intervention, judicial review of administrative decisions, and the relationships of administrative agencies with political parties and with interest groups. PROFESSOR SAYRE.
W 4:10–6.

★G4242y. The Managerial Aspects of Public Administration. 3 points.

The managerial aspects of public administration within the distinctive legal and political context of democratic government. Structure and process as aspects of administrative organization; centralization and decentralization; the budget process as an instrument of coordination and control; personnel policies and the role of the bureaucracy; the roles of specialists and generalists in administration; and the relationships of administrative agencies with their clientele groups and with the general public. Prerequisite: Course ★G4241x. PROFESSOR SAYRE.
W 4:10–6.

★G4471x. Political Institutions of Japan. 3 points.

The political structure of Japan under the Meiji Constitution, with special reference to the development of parties and the influence of special interests in government since 1890. The course will conclude with a brief survey of the post-war order and its prospects for permanence. PROFESSOR MORLEY.
W 4:35–6:15.

★G4472y. Political Institutions of China. 3 points.

An analysis of modern Chinese political developments with particular emphasis on the forces responsible for both the democratic and communist revolutions. PROFESSOR MORLEY. W 4:35–6:15.

GREEK AND LATIN

PROFESSOR: JOHN DAY (Chairman)

VISITING ASSOCIATE PROFESSOR: HELEN H. BACON

LECTURER: ELIZABETH CONSTANTINIDES

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSORS: MOSES HADAS, GILBERT HIGHET

ASSOCIATE PROFESSORS: COLEMAN H. BENEDICT, HOWARD N. PORTER

ASSISTANT PROFESSOR: WILLIAM M. CALDER, III

INSTRUCTORS: JAMES A. COULTER, DANIEL GERSHENSON, JOHN O. LENAGHAN

The general objectives towards which the work of the department is directed are a knowledge of the language, literature, and civilization of the ancient Greeks and Romans. The emphasis varies in accordance with the student's interests.

A major in Greek: Twenty-four points in Greek and 4 points in archaeology or classical civilization or Greek history or Greek philosophy.

A major in Latin: Twenty-four points in Latin and 4 points in archaeology or classical civilization or Roman history.

A major in Greek and Latin combined: The following combinations are possible: (a) 18 points of Greek, 10 points of Latin; (b) 18 points of Latin, 10 points of Greek. No points in archaeology or classical civilization may count.

At least one course in Greek composition and one course in Latin composition are strongly recommended.

Other fields: The work in other fields will vary with the special interest of the student and should be arranged in consultation with the department. Students will find it profitable to take courses in Greek history, or in Roman history, or in both. A reading knowledge of French and German is advised.

The major examination at the end of the senior year consists of two three-hour examinations, one of which is devoted to examination in a "special author" to be chosen by the student, the other to translation into English and from English into one or the other or both of the classical languages.

Columbia University is a Supporting Institution of the American School of Classical Studies at Athens and the American Academy in Rome, and the advantages of those schools are open, without fee, to graduates of Barnard College.

Foreign language requirement for the degree: All new students who intend to satisfy the foreign language requirement in Greek or Latin must take a placement examination before registration. This examination tests the student's knowledge of grammar and her ability to translate written Greek or Latin. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others may fulfill the requirement by completing Greek 11, 12 or Latin 11, 12 with a minimum grade of C—.

CLASSICAL CIVILIZATION

57. Masterpieces of Greek Thought. 3 points. [3]

Formerly Course R58. A study of great Greek books and compositions of smaller compass, from the point of view of thought. Aristotle's *Ethics* and *Poetics* and selected plays of the great dramatists. May be counted towards the non-literature requirement in the humanities. PROFESSOR DAY. M W F 11.

GREEK LANGUAGE AND LITERATURE

Written permission of the department required for all language courses.

1-2. Elementary Full-Year Course. 8 points. [5]

Grammar, composition, and reading. Course 1 is prerequisite to Course 2. PROFESSOR BACON. M W F 2, and a fourth hour to be arranged.

★W1201x. Attic Prose and Poetry. 3 points.

Formerly Course 11. The selections to be read include a dialogue of Plato and a play of Euripides. Prerequisite: Course 1-2 or the equivalent. Course ★W3319x-W3320y is strongly recommended as a parallel course. MR. GERSHENSON and MR. LENAGHAN. Section I M W F 1. Section II T Th 5:40-6:55.

★W1202y. Homer. 3 points.

Formerly Course 12. Selections from the *Iliad* or *Odyssey*. Prerequisite: Course 1-2 or the equivalent. Course ★W3319x-W3320y is strongly recommended as a parallel course. PROFESSOR BENEDICT and MR. GERSHENSON. Section I M W F 1. Section II T Th 5:40-6:55.

[★W3305x. Greek Tragedy. 3 points.

Formerly Course ★5. Given every other year, in alternation with Course ★W3307x.

Not given in 1961-62.]

[★W3306y. Greek Historians. 3 points.

Formerly Course ★6. Given every other year, in alternation with Course ★W3308y.

Not given in 1961-62.]

★W3307x. Greek Comedy. 3 points.

Formerly Course ★7. Selected plays of Aristophanes; studies in the origin and development of Greek comedy. Given every other year, in alternation with Course ★W3305x. Prerequisite: Course ★W1201x-W1202y or the equivalent. PROFESSOR BENEDICT. T Th 3:10-4:25.

★W3308y. Greek Philosophy. 3 points.

Formerly Course ★8. Selections from Plato's dialogues; studies in the development of Greek philosophy. Given every other year, in alternation with Course

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★W3306y. Prerequisite: Course ★W1201x–W1202y or the equivalent. PROFESSOR BACON. T Th 3:10–4:25.

★W3319x–W3320y. **Prose Composition.** 4 points.

Formerly Course ★19–20. Particularly recommended to students who have taken only Course 1–2. MR. GERSHENSON. Th 1:10–2:50.

★W3329x–W3330y. **Prose Composition: Advanced Course.** 4 points

Formerly Course ★29–30. Prerequisite: Course ★W3319x–W3320y or the equivalent. PROFESSOR CALDER. Th 1:10–2:50.

LATIN LANGUAGE AND LITERATURE

Written permission of the department required for all language courses.

1–2. **Elementary Full-Year Course.** 6 points. [4]

Grammar, composition, and reading. Course 1 is prerequisite to Course 2. MISS CONSTANTINIDES. M W F 1.

3. **Vergil: Selections from Aeneid I–VI.** 3 points. [5]

Prerequisite: Two or three years of high school Latin or the equivalent. Course ★W3319x–W3320y is strongly recommended as a parallel course. MISS CONSTANTINIDES. M W F 2.

4. **Cicero: Selections; Ovid: Selections.** 3 points. [5]

Prerequisite: Two or three years of high school Latin or the equivalent. Course ★W3319x–W3320y is strongly recommended as a parallel course. MISS CONSTANTINIDES. M W F 2.

11. **Livy: Selections; Tacitus: Agricola or Germania.** 3 points. [4]

Prerequisite: Course 3 or 4 or the equivalent. Course ★W3319x–W3320y is strongly recommended as a parallel course. PROFESSOR BACON. M W F 1.

12. **Horace: Odes and Epodes.** 3 points. [4]

Prerequisite: Course 3 or 4 or the equivalent. Course ★W3319x–W3320y is strongly recommended as a parallel course. PROFESSOR DAY. M W F 1.

25. **Horace: Satires and Epistles.** 3 points. [6]

Prerequisite: Courses 11 and 12 or permission of the department. PROFESSOR DAY. T Th 9:10–10:25.

26. **Roman Drama.** 3 points. [6]

Prerequisite: Courses 11 and 12 or permission of the department. PROFESSOR BACON. T Th 9:10–10:25.

Courses 25, 26 are rotated in a three-year cycle with Courses 21 (Juvenal; Martial; Pliny); 22 (Cicero; Ovid); 27 (Lucretius; Catullus); 28 (Tacitus).

★W3319x–W3320y. **Prose Composition.** 4 points.

Formerly Course ★19–20. Strongly recommended as a parallel course to Courses 3, 4 and 11, 12. PROFESSOR BENEDICT. Th 1:10–2:50.

GREEK AND LATIN

- [★W3329x–W3330y. **Prose Composition: Advanced Course.** 4 points.
Formerly Course ★29–30.
Not given in 1961–62.]

GRADUATE COURSES

Certain graduate courses given at Columbia University are open with the consent of the department and the major adviser to qualified seniors. Their description may be found in the Announcement of the Graduate Faculties. The following courses are recommended for students who have the written permission of the department:

- ★Classical Literature G6056y. **The Classical Drama and its Influences.** 3 points.
Formerly Course ★256. PROFESSOR HADAS. M W 10.
- ★Classical Literature G6057x. **Ancient Pastoral and Romance.** 3 points.
Formerly Course ★255B. PROFESSOR HADAS. M W 10.
- ★Greek G4011x–G4012y. **Homer's Iliad.** 6 points.
Formerly Course ★111, 112. PROFESSOR PORTER. W 6:40–8:30 p.m.
- ★Greek G4103x–G4104y. **Greek Literature, Part II: Prose.** 6 points.
Formerly Course ★103, 104. PROFESSOR CALDER. M F 3:10.
- ★Latin G4011x–G4012y. **Vergil.** 6 points.
Formerly Course ★111, 112. Autumn: PROFESSOR PORTER. Spring: PROFESSOR HICHET. W 4:10–6.
- ★Latin G4103x–G4104y. **Literature of the Roman Empire.** 6 points.
Formerly Course ★103, 104. Autumn: PROFESSOR HADAS. Spring: PROFESSOR HICHET. M 4:10–6.

HISTORY

PROFESSORS: RENÉ ALBRECHT-CARRIÉ, BASIL RAUCH (Chairman), ¹CHILTON WILLIAMSON (Chairman, Autumn Term)

ASSOCIATE PROFESSORS: ²SIDNEY A. BURRELL, VIRGINIA D. HARRINGTON

ASSISTANT PROFESSOR: LOUISE ELLIOTT DALBY

ASSOCIATE: ANNETTE KAR BAXTER

LECTURERS: EARLE W. JENNISON, JR., GEORGE WOODBRIDGE

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

ASSOCIATE PROFESSORS: NORMAN I. CANTOR, MORTON SMITH

INSTRUCTOR: FRANCIS RANDALL

As the record of the past, history touches on all aspects of human activity. The study of history is calculated to give an understanding of the functioning of man in society through an appreciation of his past achievements and a sense of continuity combined with diversity. The basic issues that confront human society have changed but little in historic times, but their setting is forever different.

A major in history: In order to acquire a broad understanding of historical development and some acquaintance with the technique of historical study, a student majoring in history is required to take the following:

- (a) Three fundamental courses: European history (1–2), American history (9–10; 33–34; 45–46; or 55–56), and either ancient or medieval history;
- (b) Two courses in the category of specialized courses to be chosen with a view to concentration in the broad fields of either American or European history;
- (c) One seminar for the purpose of gaining insight into the technique of more advanced work and as an introduction to specialized study and research. In connection with this seminar a student majoring in history is also required to write a senior essay which will be appraised by the department. Students are strongly advised to elect a four-course program for their senior year.

In view of the close relation of the disciplines that go under the name of social sciences, a student majoring in history is also required to elect 12 points distributed in two social sciences other than history.

NOTE: These broad requirements retain sufficient flexibility to be adjustable to the needs of students with a special interest in a particular field or area, e.g., classical civilization, cultural history, the Near East, and the program in Oriental Studies.

Special program in history: Under this program the student will take four fundamental courses, both seminars in her field of concentration, and will be given a program of readings to be done during the summers of the sophomore and junior years. The student will be examined on these readings during the

¹ Absent on leave, Spring Term.

² Absent on leave, 1961–62.

spring of her senior year. A committee of the department will decide on the successful completion of this program, recognition of which will be in the form of a special certificate. Students interested in the special program should consult the Chairman of the department.

Combined majors: With the work in history students may combine work in other departments to make up a group of correlated courses on some large subject, such as ancient history and philosophy or art; modern history and international relations, economics or sociology; English history and literature or government; American history and economics; the history of thought and culture. See also Other Interdepartmental Offerings, page 48.

INTRODUCTORY COURSES

1-2. Survey of Modern European History from the Age of Discovery to the Outbreak of the Second World War. 6 points. [16]

Autumn Term: Foundations of modern Europe; from the fifteenth century to the eighteenth; the British, American, and French Revolutions; Napoleon; the Congress of Vienna. Spring Term: Industrial Revolution; rise of nationalism; social, intellectual, and economic problems of the nineteenth century; imperialism and world politics; the world wars and the twentieth century transition. PROFESSORS CARRIÉ, DALBY, DR. WOODBRIDGE, MR. JENNISON, and -----.

Section I M W F 9.

Section V M W F 1.

Section II M W F 10.

Section VI M W F 2.

Section III M W F 11.

Section VII T Th 9:10-10:25.

Section IV M W F 12.

Section VIII T Th 2:10-3:25.

★C1105x-C1106y. Ancient History: A Survey of the Ancient Mediterranean World. 6 points.

Autumn Term: From the appearance of written records in Egypt and Mesopotamia, through the development of Greek civilization to the accession of Alexander the Great. Spring Term: Pre-Roman Italy; rise of Rome from a fortified village to ruler of the "known world," the character of the Roman Empire and the causes of its dissolution; the beginnings and triumph of Christianity. PROFESSOR SMITH. M W F 9.

7-8. Medieval Thought, Culture, and Science. 6 points. [1]

An examination of intellectual life in the Middle Ages, from the end of the Roman Empire to the fifteenth century, with special attention to the history of scientific thought and the origins of modern science. ----- M W F 9.

9-10. History of the American Nation from Colonies to World Power. [7] 6 points.

This course aims to broaden and deepen the student's understanding of the American past in terms of its economic, political, cultural and intellectual aspects. Not open to students who have had a full-year course in American history in the junior or senior year of high school. PROFESSOR RAUCH. T Th 10:35-11:50.

BARNARD COLLEGE

SPECIALIZED COURSES

- 11, 12. England from the Norman Conquest to the Twentieth Century.** [6]
6 points.

A survey of the evolution of England and the British Isles from the medieval Norman monarchy through world-wide domination to the beginning of the welfare state. DR. WOODBRIDGE. T Th 9:10–10:25.

- [15, 16. The Renaissance and the Reformation.** 6 points.

Not given in 1961-62.]

- 25, 26. Europe since 1870.** 6 points. [2]

Internal evolution of the principal powers; Bismarck's Germany; imperialism and the rival alliances. First World War: the peace settlements; the League, the apparent liquidation of the war; new political systems; collapse of the nineteen-thirties. Second World War and its legacy. Prerequisite: Course 1–2. PROFESSOR CARRIÉ. M W F 10.

- 27, 28. The French Revolution and Napoleon.** 6 points. [4]

Background of the Revolution, the constitutional monarchy, the First Republic, the Directory and the Empire. Changes in the social structure of the nation, spread of the Revolution, growth of opposition and the rise of nationalism. Heritage of the Revolution. Prerequisite: Course 1–2. PROFESSOR DALBY. M W F 1.

- [29, 30. The Modern Mediterranean World.** 6 points. PROFESSOR CARRIÉ.

Not given in 1961-62.]

- 33–34. Studies in American Colonial History.** 6 points. [5]

Economic, religious, social, and intellectual aspects of colonial culture. The Revolutionary Movement: ripeness of the colonies for rebellion; organization of resistance; the clash of ideas and arms; internal significance of the Revolution and its subsequent influence. Prerequisite: Course 9–10 or its equivalent. PROFESSOR HARRINGTON. M W F 2.

- [35, 36. History of the British Empire.** 6 points. PROFESSOR WILLIAMSON.

Not given in 1961-62.]

- 37, 38. History of Russia.** 6 points. [1]

A history of the Russian people, state, and culture from their origins to the present. Autumn Term: Russia to 1900. Spring Term: Revolutionary and Communist Russia. Prerequisite: Course 1–2 or an equivalent course. MR. RANDALL. M W F 9.

- 43. The History of Education in the United States.** 3 points. [4]

Development of education in the United States against the background of political, philosophical, religious, and scientific thought. Emphasis upon the social and intellectual forces which have shaped education. PROFESSOR HARRINGTON. M W F 1.

HISTORY

[45–46. **Studies in the Middle Period of American History.** 6 points. PROFESSOR WILLIAMSON.

Not given in 1961-62.]

53–54. **History of United States Foreign Relations.** 6 points. [12]

American diplomacy from the Secret Committee of Correspondence to recent times, with attention to domestic and foreign influences on the policies and actions of American leaders. Prerequisite: Preceding or parallel: Course 9–10, or an equivalent course. PROFESSOR RAUCH. T Th 3.

[55–56. **Studies in Modern American History.** 6 points. PROFESSOR RAUCH.

Not given in 1961-62.]

58. **History of Religion in America** (same as **Religion 58**). 3 points. [4]

History of religious thought and institutions in the United States from colonial times to the present. Special attention will be paid to developments of the nineteenth and twentieth centuries. PROFESSOR HARRINGTON. M W F 1.

SEMINARS

Admission to the seminars is by permission of the department. History majors should file application with the Chairman in the spring of their junior year, indicating the order of their choice of seminars.

History majors are also eligible to fulfill seminar requirements by enrolling in the senior seminar in British Civilization on written permission of the Chairman of the Committee on British Civilization.

81, 82 **Seminar in Historiography.** 10 points. [0]

Readings and research into the ideas and methods of historical study from the beginnings of western civilization to the twentieth century. Introduction to historical criticism. PROFESSOR CANTOR. Th 4–6.

83, 84. **Seminar in American Studies.** 8 points. [0]

Readings in primary sources on diverse aspects of American civilization and presentation of results for seminar discussion. PROFESSOR RAUCH. W 4–6.

85, 86. **Seminar in European Civilization.** 10 points. [0]

Research into the literature of European issues such as nationalism, socialism, and the balance of power. Presentation of results for seminar discussion. PROFESSOR DALBY. T 4–6.

87, 88. **Colloquium in the Literature of American History.** 10 points. [0]

Extensive reading and discussion in American historiography, including such classic figures as Bancroft, Parkman, Prescott, and Hildreth, as well as more recent writers. Introduction to historical criticism. PROFESSOR HARRINGTON. W 4–6.

BARNARD COLLEGE

GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified seniors with the consent of the department and the major adviser. Ordinarily a minimum of 18 points in history at Barnard, or in special cases, the equivalent thereof in courses in other social sciences, is required as a prerequisite. A description of the courses will be found in the Announcement of the Graduate Faculties.

HYGIENE

MARJORY J. NELSON, M.D., College Physician

1. **Hygiene.** 2 points.

A study of the principles of physical and mental health.

This course is required of all freshmen, and must be taken by all transfers who have not passed the exemption test. DR. NELSON. T Th 2:10—3:25.

ITALIAN

ASSOCIATE PROFESSOR: MARISTELLA DE PANIZZA LORCH
(Chairman for Barnard College)

ASSISTANT PROFESSOR: ELIZABETH CZONICZER

ASSISTANT: JOAN FERRANTE

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSORS: PAUL O. KRISTELLER, HOWARD R. MARRARO, ENRICO DE NEGRI,
MARIO A. PEI, PETER M. RICCIO

ASSOCIATE PROFESSOR: OLGA M. RAGUSA

ASSISTANT PROFESSOR: LUCIANO REBAY (Chairman for Columbia College)

A major in Italian is expected to attain (a) sufficient knowledge of the language to enable her to read, write, and speak it, (b) a fundamental acquaintance with Italian literature, (c) a fair ability in understanding and interpreting literary texts in Italian.

Courses: 28 points, exclusive of language courses, to be planned as early as possible in consultation with the Department.

Allied subjects: In consultation with their major adviser students should select courses in other languages and literatures, music, art history, history, philosophy, and religion.

The major examination consists of four hours of written work and an oral examination.

Foreign language requirement for the degree: All new students who intend to satisfy the foreign language requirement in Italian must take a placement examination before registration. This examination tests the student's knowledge of grammar, her ability to comprehend written and spoken Italian, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others may do so by completing a full-year literature course, given in Italian, with a minimum grade of C-, or completion of Course ★W3333x with a minimum grade of B+.

Casa Italiana: The Casa Italiana (with its library, theatre, and conference rooms) is open to all students interested in Italian civilization, culture, and literature. A program of lectures, concerts, plays, poetry recitations, and informal gatherings is organized to meet the students' needs. Miss Giaconda Savini, secretary of the Casa, will gladly supply additional information. The Casa is located on Amsterdam Avenue at 117th Street.

Courses in Italian literature and civilization given in English may be found in the interdepartmental offerings, page 47.

All courses listed below are conducted in Italian.

★W1101x—W1102y. **Elementary Full-Year Course.** 6 or 8 points.

An integral course for beginners with intensive oral-aural drill. Reading, translation, conversation. It is not advised that this course be taken simultaneously

BARNARD COLLEGE

with Spanish 1-2. No credit is given for Course W1101x until Course W1102y has been completed. Work in the language laboratory for one hour weekly is a required part of the course. Section I PROFESSOR LORCH. Section II PROFESSOR REBAY. T W 11-12:15; Th 11-11:50.

One additional period will be arranged for students working for 8 points of credit.

★W1201x-W1202y. Intermediate Course. 6 points.

A review of the essentials of grammar, intensive and extensive reading, translation, composition, and practice in conversation. Prerequisite: Course ★W1101x-W1102y or the equivalent. Section I PROFESSOR RICCIO. T Th 8:35-9:50. SECTION II PROFESSOR CZONICZER. M W F 10.

★W1315x. Readings in Modern Italian Literature. 3 points. PROFESSOR CZONICZER. Hours to be arranged.

★W3333x-W3334y. Introduction to Italian Literature. 6 points.

Reading and interpretation of major Italian authors from the thirteenth century to modern times. Prerequisite: Course ★W1201x-W1202y or three years of high school Italian. PROFESSOR REBAY. T Th 8:35-9:50.

[★W3535x-W3536y. Dante, Petrarca, Boccaccio. 6 or 8 points. PROFESSOR LORCH.

Not given in 1961-62.]

★W3537x. Italian Humanism and Renaissance. 3 or 4 points.

Lorenzo de Medici, Poliziano, Pulci, Boiardo, Ariosto, Tasso, Machiavelli, Guicciardini, Castiglione, Bembo, and Petrarchism. PROFESSOR LORCH. T Th 8:35-9:50.

[★W3639x-W3640y. Italian Literature from 1600-1850. 6 or 8 points. PROFESSOR REBAY.

Not given in 1961-62.]

[★W3641x or W3642y. Studies in the Italian Theatre. 3 or 4 points. PROFESSOR LORCH.

Not given in 1961-62.]

GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified seniors with the consent of the chairman of the department and the major adviser. A description of these courses will be found in the Announcement of the Graduate Faculties. The following are recommended:

★G4005x. Italian Lyric Poetry. 3 points. PROFESSOR REBAY. T 6-7:40.

★G4053x-G4054y. Contemporary Italian Literature. 6 points. PROFESSORS REBAY and RICCIO. W 6:40-8:30.

ITALIAN

★G4071x–G4072y. Italian Romanticism: Foscolo, Manzoni, Leopardi. 6 points.
PROFESSOR DE NEGRI. T Th 5.

[★G4075x–G4076y. Dante. 6 points. PROFESSOR DE NEGRI.
Not given in 1961-62.]

★G4094y. Intensive Analysis of Selected Italian Masterpieces. 3 points. PRO-
FESSOR LORCH. M 5–6:40.

★G4001x–G4002y. Survey of Italian Literature. 6 points. PROFESSOR
MARRARO. T 7–8:40 pm.

★G4003x. History of the Italian Language (in English). 3 points. PRO-
FESSOR PEI. Th 4:30–6:10.

★G4056y. The Italian Novel of the Nineteenth Century. 3 points. PROFES-
SOR RAGUSA. S 11–12:40.

★G6067x. Italian-Philosophy. Philosophical Literature of the Renaissance
(in English). 3 points. PROFESSOR KRISTELLER. T Th 1.

The following courses in the School of General Studies are open only on the
recommendation of the department. No more than 3 points may be counted
towards the degree and none for the major.

★F1111x–F1112y. Elementary Conversation. No credit. DR. PIETROSI
and MISS FERRARI. Section I T F 2:45–4. Section II M Th 8:25–9:40
p.m.

★F1221x–F1222y. Intermediate Conversation. No credit. -----.
M Th 5:35–6:50.

★F3335x–F3336y. Advanced Grammar and Composition. 6 points. DR.
PIETROSI. M Th 7–8:15 p.m.

LATIN (SEE GREEK AND LATIN)

MATHEMATICS

PROFESSOR: EDGAR R. LORCH (Chairman)

ASSOCIATE PROFESSOR: ¹JOANNE ELLIOTT

INSTRUCTORS: CLAIRE FRIEDMAN, EVA W. GRAY

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSORS: RICHARD V. KADISON, BERNARD O. KOOPMAN, SERGE LANG, HERBERT ROBBINS, WALTER C. STRODT

ASSOCIATE PROFESSORS: JAMES EELLS, JR., LAJAS TAKACS

VISITING ASSISTANT PROFESSOR: IAN R. PORTEOUS

INSTRUCTORS: EDWARD F. ASSMUS, JR., PETER FREYD

A major in mathematics: A student majoring in mathematics will be required to take a minimum of 28 points, including the calculus sequence or the equivalent, and, in addition, courses selected with the approval of the department. For additional information regarding courses in mathematics, the student is urged to consult the current Announcements of Columbia College, the School of General Studies, and the Graduate Faculties.

Other fields: Usually it is advantageous to supplement the mathematical studies with work in allied subjects. For example, courses in physics, chemistry, or statistics are frequently elected. Those interested in the field of computing machines may consult the bulletin of the Watson Scientific Computing Laboratory for courses in this area of applied mathematics. The choice of these related courses will vary with the interests of the student and must be chosen in consultation with the department.

Advanced Placement: After completing Course 15, students entering with advanced placement may, with permission of the department, take Course ★C1156y instead of Course 26. This course is specially designed for students who have had calculus in high school.

The major examination will be in two parts: (1) The Graduate Record Examination; (2) an oral examination administered by the department.

7, 8. Mathematical Analysis. 6 points. [2]

Designed to give the student who intends to take only one year of college mathematics as broad a view as possible of the nature of mathematics. Autumn Term: Trigonometry and algebra. Spring Term: Topics in analytic geometry, differential and integral calculus. This course is primarily for those who do not plan to major in mathematics or a physical science. Course 7 is prerequisite to Course 8. DR. GRAY. M W F 10.

15. Vectors and Coordinate Geometry. 3 points. [1]

Sets, functions, real numbers, vector spaces, points, lines, planes, scalar product, length, angle, linear transformations, matrices, determinants, graphs. Prerequisite:

¹ Absent on leave, 1961-62.

MATHEMATICS

Trigonometry. PROFESSOR LORCH. M W F 9. Fourth hour to be arranged.

16. Vectors and Coordinate Geometry. 3 points. [1]

Same as Course 15, but given in Spring Term. DR. GRAY. M W F 9.
Fourth hour to be arranged.

25. Calculus I. 3 points. [1]

Limits, derivatives, velocity, rates, tangent lines, techniques of differentiation, algebraic functions, maxima and minima, curve sketching, inverse functions, logarithmic and exponential functions, trigonometric functions and their inverses, mean value theorem, approximation, indeterminate forms, polar coordinates. Prerequisite: Course 15. DR. GRAY. M W F 9. Fourth hour to be arranged.

26. Calculus I. 3 points. [1]

Same as Course 25, but given in Spring Term. PROFESSOR LORCH. M W F 9.
Fourth hour to be arranged.

★C1156y. Differential and Integral Calculus I. 3 points.

An intensive course designed for students who have had calculus in high school. Prerequisite: Course 15 and permission of the department. DR. ASSMUS.
Lec. T Th 10. Third hour: T 8; Th 8; or W 12.

36. Calculus II. 3 points. [7]

Integration, with applications to geometry and physics; infinite series, theorems and tests of convergence, Taylor's theorem, computation by means of series. Prerequisite: Course 25. DR. FRIEDMAN. T Th 10:35–11:50.

41. Calculus III. 3 points. [5]

Topics covered will include: further applications of the definite integral; infinite series; vectors and solid analytic geometry. Prerequisite: Course 31, or two terms of calculus. DR. GRAY. M W F 2.

33 (or ★C1206y). Calculus IV. 3 points.

Topics covered will include: partial derivatives; multiple integrals and line integrals; applications to geometry and physics. Prerequisite: Course 41.

Autumn Term (33). DR. FRIEDMAN. M W F 11. [3]

Spring Term (★C1206y). PROFESSOR STRODT. Lec. T Th 11 and a recitation hour.

34. Calculus V. 3 points. [10]

An introduction to various branches of mathematical analysis. Partial differentiation and multiple integrals and their applications to geometry and physics; line and surface integrals, the theorems of Green and Stokes; Fourier series; Legendre polynomials and Bessel functions. Prerequisite: Course 33. DR. GRAY.
M W F 3.

[60. Introduction to Modern Mathematics. 3 points. PROFESSOR LORCH.

Not given in 1961-62.]

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★W3005x–W3006y. Advanced Calculus for Science Majors. 3 points.

Taylor's theorem and power series in several variables; maxima and minima; directional derivatives and gradients; line and surface integrals; problems in mathematical physics; elements of the theory of a complex variable as an instrument in the physical sciences and engineering. Prerequisite: Course 33 with a grade of B– or better. PROFESSOR KOOPMAN. M W F 11.

★W3027x. Differential Equations. 3 points.

The integration of ordinary differential equations, principally by formal methods. Applications to geometry and physics. Prerequisite: Course 33 or equivalent. PROFESSOR EELLS. T Th 5:40–6:55.

★W3028y. Partial Differential Equations. 3 points.

The solution of partial differential equations with application to problems in geometry and mechanics. Prerequisite: Course ★W3027x or equivalent. PROFESSOR EELLS. T Th 5:40–6:55.

★W3053x–W3054y. Advanced Calculus. 6 points.

The differential and integral calculus in Euclidean spaces with emphasis on the geometric point of view. Topics include: the necessary algebra of vector spaces; the intrinsic geometry of the differential of a smooth transformation; the inverse function theorem; Taylor's theorem with application to extremal problems; integration of differential forms; the exterior differential and Stokes's theorem; transformation of integrals. Intended primarily for mathematics majors. Prerequisite: Course 33. PROFESSOR PORTEOUS. M W F 11.

★W3101x. Introduction to Number Theory. 3 points.

Congruences, structure of residue class groups, quadratic reciprocity, Dirichlet's prime number theorem, and quadratic number fields. Prerequisite: Differential and integral calculus. DR. FREYD. M W F 11.

★W3202x (or ★W3202y). Introduction to Algebra. 3 points.

Vector spaces, linear transformations, matrices, quadratic forms. Prerequisite: Differential and integral calculus. ★W3202x: PROFESSOR LANG. T Th 5:40–6:55. ★W3202y: DR. FREYD. M W F 11.

★G4010x. Fundamental Concepts of Mathematics. 3 points.

Sets, mappings, relations, ordered sets, well ordering, natural numbers, cardinal numbers, ordinal numbers, choice functions, Zorn's lemma, induction, real and complex numbers. Prerequisite: Course 33. PROFESSOR KADISON. T Th 2:40–3:55.

★Mathematical Statistics G4105x (or G4105y). Probability. 4½ points.

Fundamentals; random variables and distribution functions in one or more dimensions; the binomial, normal, and Poisson distributions; combinatorial problems; moments and characteristic functions; stochastic convergence and the law of large numbers; addition of random variables and limit theorems; the chi-square t , and F distributions. Prerequisite: Course 33. ★G4105x: PROFESSOR TAKACS. M W 5:40–6:55. ★G4105y: PROFESSOR ROBBINS. T Th 11–12:15.

★Mathematical Statistics G4106y. Elementary Theory and Applications of Stochastic Processes. 3 points.

Special topics in probability theory which are important in applications: Markov chains, renewal theory, random walks, recurrent events, queuing theory, elementary stochastic processes. Prerequisite: Course ★G4105. PROFESSOR TAKACS. Th 5:40–7:30.

★G4161x–G4162y. Analysis. 9 points.

Elements of general topology. Theory of functions of one and several real variables: continuity, differentiation, Riemann integration, functional equations and dependence. Development of the theory of measure and integration; the Lebesgue integral in n -dimensional space; theorems of Fubini, Riesz-Fischer, Egoroff, Radon-Nikodym; elements of Fourier analysis; integration in groups. Radon measures and Daniell integrals. Prerequisite or parallel: Course ★G4010x. PROFESSOR LORCH. M W 1:10–2:25.

★G4164y. Theory of Functions of a Complex Variable. $4\frac{1}{2}$ points.

Analytic functions, the Cauchy theory of complex integration, Riemann surfaces, conformal mapping. Prerequisite: Course ★G4161x. PROFESSOR STRODT. T Th 2:40–3:55.

★G4267x–G4268y. Algebra. 9 points.

Notions of group, ring, field, module, vector space, algebra, polynomial. The Galois theory and linear algebra. Prerequisite or parallel: Course ★G4010x. DR. ASSMUS. T Th 1:10–2:25.

MUSIC

PROFESSOR: OTTO LUENING

ASSISTANT PROFESSOR: HUBERT DORIS (Chairman for Barnard)

INSTRUCTOR: GENEVIEVE CHINN

ASSISTANT: PATRICIA CARPENTER

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSORS: WILLIAM J. MITCHELL, ¹DOUGLAS STUART MOORE (Chairman)

ADJUNCT PROFESSOR: NATHAN BRODER

ASSOCIATE PROFESSOR: JACK BEESON

INSTRUCTORS: CHRISTOPHER HATCH, JOEL NEWMAN, F. MARK SIEBERT,
PETER WESTERGAARD

ASSOCIATE: RUDOLPH THOMAS

TEACHING STAFF IN APPLIED MUSIC:

EVERETT ANDERSON, EVELYN HERTZMANN. Voice

ALTA HILL. Piano

FRANK SHERIDAN. Piano

PETER FLANDERS. University Chorus

ELIAS DANN. University Band

HOWARD SHANET. University Orchestra

M. SEARLE WRIGHT. Organ; Chapel Choir

A major in music is designed to integrate music as an art and a craft within the framework of the liberal arts.

A student intending to major in music should plan to take Courses 1–2 and 31y in the freshman year followed by Course 32x in the sophomore year, as these courses are prerequisite to the advanced courses in literature, theory, and history which are normally included in a major program.

In general, major programs are planned to include 28 points of advanced work (exclusive of applied music and Course 1–2) in literature, history, and in theory. Ordinarily Courses ★C3123x–C3124y, 31–32, 32ax–33ay, ★C3333y, ★C3334x, ★C3335x, and ★C3373x–C3374y are required. (Courses ★C3336y and 39–40 are required of students intending to specialize in composition.) Course 25 is highly recommended as an elective. Applied music courses (a maximum of 12 points) may be counted towards the degree but are not required.

Other fields: A reading knowledge of German, Italian, or French is required. Students planning to do graduate work in musicology must know at least two foreign languages, including German and French. Courses in art history, history,

¹ Absent on leave, Autumn Term.

philosophy, literature, and foreign languages are recommended for their relationship with musical studies, and should be elected after consultation with the department.

Students are advised to consult the Announcement of the Graduate Faculties for those courses open to seniors and others with advanced training.

At the end of the junior year students majoring in music will be expected to file with the department certificates stating that they have passed an examination in elementary piano and that they have participated for two years in the chorus, orchestra, choir, or concert band. (The two-year requirement applies to the Class of 1963 and all thereafter.)

Students majoring in music are required to take a major examination at the end of the senior year which will test their ability to deal primarily with problems in music history, theory, and analysis.

Practice rooms: The department provides practice rooms at a nominal charge for use of students of applied music. Preference in assigning hours is given in order of application to those enrolled in courses given by the department. Application for practice time should be made to the office of Buildings and Grounds, Milbank Hall, during registration and the first week of classes.

Library: Books, scores, and records are available at the Barnard College Library. The Columbia Department of Music maintains in 701 Journalism a lending library of books and scores. In addition, phonographs with a large collection of records are available to students.

Collegium Musicum. The aim of this organization is to acquaint the students with certain neglected and unfamiliar masterpieces of vocal and instrumental music, in order to supplement concert and recital programs to be heard in the city and elsewhere. All students majoring in music are required to attend the meetings and are urged to participate actively in performances. Students in other departments are also welcome. Emphasis is placed upon a variety of compositions and not on finished performance. The literature to be used embraces music from medieval times to the present day.

LITERATURE AND HISTORY

1-2. An Introduction to Music. 6 points.

A study of the elements of musical structure designed to form intelligent listening habits. The spring term is devoted to a study of selected masterpieces of the several great epochs of music, with emphasis on their style and structure. No previous knowledge of music is required. This course satisfies the non-literature requirement in the humanities. PROFESSOR DORIS, MISS CHINN. Section I M W F 10. [2]. Section II M W F 11. [3]. One hour per week of supervised listening.

4. Literature of the Pianoforte. 2 points. [3]

Study of selected works of piano music from the eighteenth century to the present. Prerequisite: Course 1-2 or equivalent. PROFESSOR DORIS. M W 11.

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5. The Opera. 3 points. [4]

A rapid survey of the development of opera from Monteverdi to the present. Prerequisite: Course 1-2 or the equivalent. PROFESSOR LUENING. M 1, W 1-3 and a listening hour F 1.

★C1006y. The Symphony. 3 points.

Formerly Course ★6. A survey of symphonic style and structure from about 1750 to the present. Prerequisite: Course 1-2 or the equivalent. In conjunction with Course ★C1008y will satisfy the non-literature requirement in the humanities. PROFESSOR MITCHELL. M W F 1 and a listening hour W 2.

★C1008y. Contemporary Music. 2 points.

Formerly Course ★8. A survey of contemporary music from Debussy to the present. Prerequisite: Course 1-2 or the equivalent. In conjunction with Course ★C1006y will satisfy the non-literature requirement in the humanities. PROFESSOR MOORE. T Th 11, listening hour Th 12.

[★C1009x. The Heritage of Music. 2 points. PROFESSOR MOORE.

Not given in 1961-62.]

12. Haydn and Mozart. 3 points. [9]

A study of significant works of Haydn and Mozart. Prerequisite: Course 31 or the equivalent. PROFESSOR LUENING. T 2-4, Th 2 and a listening hour Th 3.

[14. Chamber Music. 3 points. PROFESSOR LUENING.

Not given in 1961-62.]

★C3123x-C3124y. History of Music. 6 points.

Formerly Course ★23-24. A survey of the history of music from the beginning of the Christian era to the nineteenth century. One hour of class time each week will consist of musical illustration. Prerequisite: Course 31-32 or the equivalent. MR. SIEBERT. T Th 9-11.

25. Nineteenth Century Music. 3 points. [3]

A history of music in the Romantic Era. This course is designed as a continuation of Course ★C3123x-C3124y, but may be taken separately and at any time after completion of Course 32. PROFESSOR DORIS. M W F 11 and a listening hour W 12.

79-80. Seminar. Historical and Analytical Studies in the Literature of Music. 4 points. [0]

Required seminar for senior majors to supplement and coordinate previous studies.

Section I. PROFESSOR DORIS and MISS CHINN. Th 4:10-6:00.

Section II. PROFESSOR BEESON. F 4:10-6:00.

★G4006y. Beethoven. 3 points.

Beethoven's contribution to music examined through a study of his work and of the sources and consequences of his procedures. Prerequisite: Course 31-32 or equivalent. PROFESSOR BRODER. T 1:10-3.

★G4007x. Bach. 3 points.

A study of Bach's style through analysis and discussion of his principal works, with an examination into the origins of that style. Prerequisite: Course 31–32 or equivalent. PROFESSOR BRODER. T 1:10–3.

[★G4008y. Twentieth-Century Tendencies in Music. 3 points. PROFESSOR BEESON.

Not given in 1961-62.]

THEORY

31–32. Harmony. 6 points. [4]

A study of triads, tones of figuration, dissonance, and modulation. One hour each week is devoted to ear training. Students who register must be able to play the piano. Written permission of the instructor required. MR. NEWMAN and MISS CHINN. M W F 1.

32x–31y. Harmony. 6 points. [2]

The subject matter of Course 31–32, starting in the spring term. MR. HATCH. M W F 10.

32ax. Harmony at the Keyboard. 2 points. [0]

A laboratory course featuring the subject matter of 32x as applied to the keyboard. Practice in sight-reading, analysis at the keyboard, harmonization of melodies, and thorough-bass realization. Prerequisite: Course 31. Preceding or parallel: Course 32. MISS CHINN. M 9, Th 3.

★C3333y. Advanced Harmony. 3 points.

Formerly Course ★R33. An analytical study of the elements of chromaticism. The exercises in various styles are taken from the literature and are designed to introduce the student to characteristic features of musical texture. Prerequisite: Course 31–32 or the equivalent. Course 32 must have been passed with a grade of B– or better. Parallel, advised but not required: Course ★C3335x, C3336y. PROFESSOR MITCHELL. M W F 10.

33ay. Harmony at the Keyboard. 2 points. [0]

A laboratory course featuring the subject matter of ★C3333y as applied to the keyboard. Prerequisite: Course 31–32. Preceding or parallel: Course ★C3333y. MISS CHINN. M 9, Th 3.

★C3334x. Analysis. 3 points.

Formerly Course ★R34. Principles of design, texture, rhythm, and the organization of musical detail as revealed through a study of compositions selected from the several periods of musical history. Prerequisite: Course ★C3333y. Recommended, but not required: Course ★C3335x, C3336y. PROFESSOR MITCHELL. M W F 10.

★C3335x, C3336y. Counterpoint. 6 points.

Formerly Course ★35, 36. A study of the five species in two and three parts, strict style. During the spring term students analyze and compose polyphonic

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pieces in various styles. Prerequisite: Course 31–32 or the equivalent.
MR. SIEBERT and MR. WESTERGAARD. M W F 12.

39–40. Composition. 4 points. [0]

Composition in the smaller forms, for voice, chorus, piano, organ, and pieces for violin or other instruments with piano. Prerequisite: Course ★C3333y or written permission of the instructor. This course may be repeated for credit.
PROFESSOR LUENING. M 3–5.

★C3373x–C3374y. Orchestration, Conducting, and Score Reading. 6 points.

Formerly Course ★73–74. Lectures and practice in orchestration and score reading, supplemented by practical demonstrations of instruments. Prerequisite: Course 31–32 or the equivalent and written permission of the instructor.
Section I. MR. THOMAS. M 2–4, W 2–3. Section II. PROFESSOR SHANET. W 2–3, F 2–4.

★G6231x–G6232y. Advanced Composition. 6 points.

Formerly Course ★131–132. Free compositions in the larger forms, including fugue, for piano, organ, instrumental ensembles, and voices. Prerequisite: Course 39–40 or the equivalent and written permission of the instructor.
PROFESSOR BEESON. F 10–12.

Barnard students are eligible to take the following courses offered by the School of General Studies:

★Music F4409x. Folk Music. 3 points.

An introduction to folk music with reference to its social and cultural background. Examination of modern techniques of collecting and research with analysis of texts and musical style. PROFESSOR RHODES. T 7:10–9 p.m.

★Music F4410y. Ethnic Music. 3 points.

An ethnomusicological study of the music of pre-literate peoples and non-European cultures. Examination and analysis of musical styles and practices in their cultural setting. PROFESSOR RHODES. T 7:10–9 p.m.

★Music F1110x. History of the Dance. 2 points.

The aesthetic and artistic tendencies in the history of the dance from the Renaissance to the present with reference to drama, opera and ballet. Lectures illustrated with demonstrations; interviews with specialists in the field. MR. SORELL. T 7:10–9 p.m.

★Art History F3075y. African Arts and Music. 3 points.

The traditional and contemporary art and music of sub-Saharan Africa in their various cultural settings. Consideration of interrelationships including the art of the dance. PROFESSORS FRASER and RHODES. M 7:10–10 p.m.

APPLIED MUSIC

NOTE: Each course in applied music must be taken parallel to a theoretical or historical course in music in order to count towards the degree. A maximum of

12 points may be so counted. No student may register for a course in vocal, organ, or piano instruction without consultation with the department as early in the registration period as possible. 601 Journalism. Hours to be arranged with the instructor.

81, 82. Vocal Instruction. 2 points. (See Note above.)

Private lessons in voice production and in interpretation. Coaching and repertoire. Special fee, \$100 each session; no refunds. MR. ANDERSON, MRS. HERTZMANN.

83, 84. Organ Instruction. 2 points. (See Note above.)

Individual instruction in the technique of the instrument and a weekly class lesson, or lecture recital, on the interpretation of the works of representative organ composers. Consult the Columbia Music Department about registration and fees. MR. WRIGHT.

91, 92. Piano Instruction. 2 points. (See Note above.)

Private lessons in technique, sight reading and repertoire. Special fee, \$100 each session; no refunds. MISS HILL.

93, 94. Piano Instruction for Advanced Students. 2 points. (See Note above.)

Private lessons in the technique of the instrument and in interpretation. Coaching and repertoire. Special fee, \$185 each session; no refunds. MR. SHERIDAN.

PERFORMANCE ACTIVITIES

Columbia University Orchestra.

In addition to regular rehearsals for public concerts, there are reading and workshop sessions in which compositions will be studied without thought of public performance.

Membership is open to all members of the University community, including students, faculty, staff and alumni, who can meet the musical qualifications. A limited number of persons interested in managerial work can gain experience as orchestra librarians, personnel managers, and business managers. PROFESSOR SHANET. Rehearsals: M W 5:30–7:30 p.m. McMillin Theatre.

Columbia University Chorus.

The purpose of the group is the study and presentation of serious choral works from all periods of musical literature. Two concerts are given in McMillin Theatre each year, as well as performances with various organizations. Informal reading sessions are also held. Membership is open to all members of the University family: graduate and undergraduate students, faculty, staff, and alumni. MR. FLANDERS. M Th 6:30–8:30 p.m. 304 Barnard.

Audition sign-up sheets will be posted outside 601 Journalism at least a week before registration.

Chapel Choir: The Chapel Choir sings regularly on Sunday mornings at the 11 o'clock service and on Monday, Wednesday and Friday at noonday services. The Choir also gives several special Sunday evening musical services. Other functions

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include choral performances at University Convocations, appearances at the Cathedral of St. John the Divine, etc. Applicants must have ability to sight-read music. All men and women students of the University are eligible. Regular members of the Choir who can participate on a full-time basis receive \$200 for the academic year. For further information consult Mr. Wright, Organist and Choirmaster of St. Paul's Chapel.

Auditions will be held in the Chapel Crypt Monday, September 25 from 10–12, Tuesday, September 26, from 2–5, Wednesday, September 27, from 10–12. Rehearsals: Monday, Wednesday and Friday, 5–6:15, Sunday, 9:45 a.m. in the Chapel Crypt.

University Band.

The Concert Band begins rehearsals November 1 with membership open to all men and women in Columbia University. Two concerts are given in McMillin Theatre and five weekly afternoon concerts are presented on the campus in the spring.

An audition schedule will be posted on the bulletin board of the Columbia Music Department during the registration period. MR. DANN. T Th 4–6. 113 Low Library.

Music for an Hour.

This series of informal chamber concerts, held once a month in the James Room of Barnard Hall, is designed to give all interested instrumentalists a chance to perform for the University community. All those interested in participating should consult Professor Doris during the first month of the term.

ORIENTAL STUDIES

ASSISTANT PROFESSOR: JOHN MESKILL (Representative)

OFFICERS OF COLUMBIA UNIVERSITY GIVING INSTRUCTION JOINTLY TO BARNARD AND COLUMBIA STUDENTS:

PROFESSOR: WM. THEODORE DE BARY

ASSISTANT PROFESSORS: AINSLIE T. EMBREE, MAAN Z. MADINA, ROYAL WEILER

Oriental Civilizations 35–36. 8 points. [16]

The more important factors in the life of peoples of India, China, and Japan, together with an appraisal of their role in the world today. Autumn Term: The evolution of these civilizations to recent times, emphasizing their characteristic institutions and intellectual traditions. Spring Term: Developments in the nineteenth and twentieth centuries as these societies have confronted the modern West while still grappling with age-old problems. Fourth hour: Consultation and audio-visual illustrations. Prerequisite: History 1–2. PROFESSORS DE BARY, EMBREE and MESKILL. Section I M W F 9. Section II M W F 2. Fourth hour W 12 or 3.

Oriental Humanities 39–40. 8 points. [0]

A selection from the works of Near Eastern, Indian, Chinese, and Japanese authors. This course will be conducted as a colloquium and will be devoted to readings in translation and discussion of major works in the literature, philosophy and religion of several oriental traditions. The autumn term will deal with works from the Near East and India; the spring term with readings from China and Japan. Open to juniors and seniors who have completed six points of literature and three points of philosophy or religion, or written permission of instructor. PROFESSORS DE BARY, EMBREE, MADINA, MESKILL and WEILER. Section I M 3–5. Section II Th 3–5.

★Oriental Studies W3001x–W3002y. Introduction to Islamic Civilization. 6 points.

Autumn Term: An examination of Islamic civilization. Its institutional and intellectual characteristics to A.D. 1800. Spring Term: Important factors, such as the impact of the West and nationalism, on the Islamic peoples from 1800 to the present. PROFESSOR MADINA. M W 4:10–5:25.

★History G6525x–G6526y. History of Modern India. 6 points.

The development of modern India from the decline of the Mughal Empire to the present time. Special attention will be given to the impact of the West, the rise of nationalism, the social, political and economic problems of independent India and foreign relations. PROFESSOR EMBREE.

★History G6825x–G6826y. History of Chinese Civilization. 6 points.

An examination of Chinese history from ancient times to the beginning of the nineteenth century, with special attention given to characteristic political, economic and social developments. Prerequisite: History 1–2. PROFESSORS WATSON and MESKILL. M W F 10.

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The following courses in Columbia University are open to Barnard students who have the consent of their advisers and Professor Ulanov, officer in charge of Areas Studies. Descriptions may be found in the Announcements of Columbia College and the Graduate Faculties.

- ★Chinese C1101x–C1102y. Elementary Chinese. 8 points.
MR. HAN. M T W Th F 9.
- ★Chinese C1201x–C1202y. Second-year Chinese. 8 points.
MISS PAN. M W F 7:10–8:35.
- ★Chinese G4005x–G4006y. Classical Chinese. 6 points.
MR. LO. T Th 4:10–5:25.
- ★History G6825x–G6826y. History of Modern China. 6 points.
PROFESSOR WILBUR. M W 11.
- ★History G6839x–G6840y. History of Modern Japan. 6 points.
PROFESSOR WEBB. T Th 1.
- ★History G6833x–G6834y. History of Japanese Civilization. 6 points.
PROFESSORS MORRIS and WEBB. T Th 11.
- ★Indic G6401x. The Legacy of India. 3 points.
PROFESSOR WEILER. M 10–11:50.
- ★Indic G6402y. Religions and Philosophies of India. 3 points.
PROFESSOR WEILER. M 10–11:50.
- ★Japanese C1101x–C1102y. First-year Japanese. 8 points.
PROFESSOR HAKEDA. M T W Th F 2.
- ★Japanese W1201x–W1202y. Second-year Japanese. 8 points.
PROFESSOR HAKEDA. M W F 5:50–7:15.
- ★Japanese G4005x–G4006y. Contemporary Japanese. 6 points.
MR. SHIRATO. M W F 11.
- [★Japanese G4031x–G4032y. Japanese Literature. 6 points.
PROFESSOR KEENE.
Not given in 1961-62.]
- ★Sanskrit G4101x–G4102y. Elementary Sanskrit. 6 points.
DR. FOWKES. W 6:10–8.

PHILOSOPHY

ASSOCIATE PROFESSORS: ¹JOSEPH GERARD BRENNAN (Chairman), JEAN A. POTTER

ASSISTANT PROFESSOR: JUDITH JARVIS

LECTURER: STANLEY MOORE

OFFICER OF COLUMBIA UNIVERSITY OFFERING A COURSE OPEN TO BARNARD STUDENTS:

INSTRUCTOR: ARNOLD KOSLOW

The major in philosophy is designed to give the student knowledge of the systems of speculative thought framed by the principal thinkers of western civilization; to acquaint her with important problems concerning the scope and reliability of human knowledge, the nature of reality, and the meaning of moral, aesthetic, and religious values; and to provide her with training in philosophical techniques appropriate to these problems. To achieve these objectives, majors in philosophy are required to take both historical and systematic courses in the subject.

A student majoring in philosophy is required to take the following courses, or their equivalents: 1; 5; 22; 61, 62, and in the senior year, the seminar, 65–66. Passing of a six-hour written major examination at the end of the senior year is required. Qualified senior majors are encouraged to enroll in philosophy courses offered by the Graduate Faculties of Columbia University. Permission for such enrollment should be obtained from the chairman of the Barnard department.

1x. Introduction to Philosophy. 3 points.

A survey of the various divisions of philosophic inquiry, including discussion of representative problems of knowledge, nature, and value. PROFESSORS BRENNAN and JARVIS and DR. MOORE.

Section I	M W F 9.	Section III	M W F 11. [3]
	(Spring Term only.) [1]	Section IV	T Th 9:10–10:35 [6]
Section II	M W F 10. [2]		

1y. Introduction to Philosophy. 3 points.

Same as Course 1x, but given in the Spring Term.

4. Metaphysics. 3 points. [7]

An examination of some of the critical problems of metaphysics, with reference to important classic and modern treatments. Prerequisite: Course 1x or the equivalent. PROFESSOR POTTER. T Th 10:35–11:50.

5. Logic. 3 points. [4]

Presented as a formal science, logic will be distinguished from the methodology of the empirical sciences. Analysis of the formal elements of classical logic will be followed by a brief introduction to symbolic logic. PROFESSOR JARVIS. M W F 1.

¹ Absent on leave, Autumn Term.

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- 7. Theory of Knowledge.** 3 points. [5]
Examination of the nature of empirical knowledge. Readings from classical and contemporary British and American texts. Prerequisite: Course 1x. PROFESSOR JARVIS. M W F 2.
- ★W3111y. Philosophy of Science.** 3 points.
Readings from Carl Hempel, Pierre Duhem, Norman Campbell, Henri Poincaré, Philipp Frank, James Conant, and others, together with simple case studies from the history of science. Prerequisite: One term of mathematics or of one of the natural sciences. MR. KOSLOW. M W F 10.
- 9. Philosophy of Religion (same as Religion 13).** 3 points. [7]
The metaphysics of theism; a systematic study of concepts related to the existence and nature of God. The possibility of reasonable grounds for religious belief and the religious use of symbol and analogy will be examined. Prerequisite: Course 1x or permission of the instructor. PROFESSOR POTTER. T Th 10:35–11:50.
- 22. Ethics.** 3 points. [5]
Discussion of the nature of moral evaluation, and the justification of moral judgments. Readings in classical and contemporary texts. Prerequisite: Course 1x. PROFESSOR JARVIS. M W F 2.
- 24. Problems in Ethical Theory.** 3 points. [3]
1961-62: Freedom of the will, and related problems in moral psychology: desire, motive, mental causality, practical reason, decision. Prerequisite: Course 22 or permission of the instructor. PROFESSOR JARVIS. M W F 11.
- 25. Social Philosophy.** 3 points. [3]
Examination of the social philosophies of Rousseau, Hegel, and Marx, centering upon the themes of individualism, rationalism, and alienation. Among the works studied will be Rousseau's *Discourses*; Hegel's *Philosophy of History* and *Phenomenology of Mind*; *The German Ideology* of Marx and Engels, and Engels' *Feuerbach*. Prerequisite: Course 1x or equivalent. DR. MOORE. M W F 11.
- 42. Philosophy of Art.** 3 points. [12]
Study and discussion of a number of ancient and modern interpretations of the nature of art. An attempt will be made to formulate and apply the concepts of truth, beauty, and meaning to the objects of aesthetic experience. Open to juniors and seniors, and to qualified sophomores on written permission of the department. DR. MOORE. Th 3–5 and conference hour.
- [43. Philosophical Implications of the Modern Novel.** 3 points. PROFESSOR BRENNAN.
Not given in 1961-62.]
- 61, 62. History of Philosophy.** 6 points. [2]
Autumn Term: Greek philosophy from Thales to Plotinus. Spring Term: Medieval and modern philosophy from Augustine to Hegel. Course 61 is a prerequisite for Course 62. PROFESSOR POTTER. M W F 10.

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63, 64. Supplementary Readings in Philosophy. 2 points. [0]

This course may be taken only in connection with some other course in philosophy, and with the permission of the department. DR. MOORE, or the instructor in the course to which the extra hours of reading are attached. Hour to be arranged for individual or group conferences.

65-66. Senior Seminar. 6 points. [0]

Required of all majors in the senior year. PROFESSOR POTTER. T 3-5 and conference hours to be arranged.

76. Twentieth Century Philosophy. 3 points. [5]

A study of philosophies of evolution, process, existence, dialectical materialism, naturalism, and logical empiricism. Readings will include selections from writings of Bergson, Whitehead, Heidegger, Ayer, representative Marxist philosophers, and critical naturalists. Prerequisite: Course 1 or 61, 62. PROFESSOR BRENNAN. M W 2 and conference hour.

84. The Philosophy of Education. 3 points. [4]

The values and goals of education; a study of contemporary problems against their historical backgrounds. Selections from the works of Plato, Aristotle, Locke, Rousseau, Newman, and Dewey, as well as contemporary critics. PROFESSOR BRENNAN. M W F 1.

PHYSICAL EDUCATION

ASSOCIATE PROFESSORS: MARGARET HOLLAND (Chairman), MARION STRENG

ASSISTANT PROFESSOR: FERN YATES

ASSOCIATE: EDITH G. MASON

INSTRUCTORS: PHYLLIS M. BIGEL, SANDRA GENTER, MARION R. PHILIPS

The program is organized and administered by the Department of Physical Education, the Medical Department and the Executive Board of the Athletic Association. It is designed to provide the students with knowledge, skills, habits and attitudes concerning health, physical activity, and recreation.

The Faculty requires physical education during the freshman, sophomore, and junior years. Students are not recommended for the degree if they fail to fulfill this requirement.

The College does not offer a major in physical education. Students who are interested in entering this field should consult a member of the department. Since the objectives and scope of the work in modern dance and fencing are related to practical theatre, students who major in English and specialize in drama are urged to take courses in this area.

Medical examinations and posture analysis: Three complete medical examinations by the College Physician are required of all students during the four years. Two complete posture examinations are required by the Department of Physical Education by the end of the sophomore year. The results of these examinations are expressed in terms of a health and activity grade which determines the program best suited to the individual.

Freshman requirement: Three hours per week on different days. During the first term two of these hours are prescribed body mechanics and rhythmic fundamentals. The third hour is elective.

Section I	M W 1.	Section IV	T Th 9.
Section II	M W 2.	Section V	T Th 11.
Section III	M W 3.	Section VI	T Th 2.

Sophomore and Junior requirement: Two hours per week on different days.

Registration:** Held in the Gymnasium, Barnard Hall, as follows:

Autumn Term:	Friday, September 29
	Monday, October 2, classes begin
Spring Term:	Wednesday, February 7
	Thursday, February 8, classes begin

Program of activities: Two sessions each term: Fall-winter: winter-spring.

The program is posted on the Physical Education bulletin board two weeks prior to the registration dates.

** Freshmen register for the autumn term at the time of their conferences with the Class Adviser and the Chairman of the Department of Physical Education.

PHYSICAL EDUCATION

Fall and Spring: archery; body mechanics; correctives; golf; modern dance; swimming—all levels, including synchronized swimming, water safety instructor's course; tennis; volley ball.

Winter each term: archery (indoor); badminton; basketball; bowling (special fee—\$6.50); conditioning exercises; correctives: fencing; folk-square dance; golf; Greek Games—athletics and/or dance; modern dance; swimming: all levels, including synchronized swimming, Red Cross life-saving, water safety instructor's course (continued); tennis; volley ball.

In all of these activities students are advised to register according to their skill level i.e., beginning, intermediate, or advanced.

Prescribed costume: Students are required to wear the regulation costume indicated for the various activities classes. Approximate cost is \$17.

PHYSICS

PROFESSOR: HENRY A. BOORSE (Chairman)

ASSOCIATE PROFESSOR: ROBERT NOVICK

ASSISTANT PROFESSOR: DANIEL GREENBERG

ASSISTANT: -----

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

PROFESSORS: SAMUEL DEVONS, ¹HENRY M. FOLEY, WILLIAM W. HAVENS, JR., POLYKARP KUSCH, LEON M. LEDERMAN, SHIRLEY L. QUIMBY, ¹JAMES RAINWATER, ALLAN M. SACHS, JACK STEINBERGER, ROBERT VON NARDOFF, CHIEN SHIUNG WU

ASSOCIATE PROFESSORS: GERALD FEINBERG, LUCY J. HAYNER

INSTRUCTOR: RAYMOND A. SORESENSEN

There are many opportunities for well trained women in the field of physics. Laboratories operated by the Departments of the Navy, Air Force, and Army, the Atomic Energy Commission, and by many industrial firms offer excellent positions at various levels of training. Medical physics constitutes an important and growing field of specialization, while teaching at the high school or college level offers challenging positions for those more concerned with academic work. For the student interested in scientific ideas and with good facility in mathematics, physics offers expanding opportunities for a stimulating and rewarding career.

A student majoring in physics begins with Course 3-4; a student with superior preparation may, on approval of the department, substitute Course ★C1006 for 3-4. Courses to complete the major include ★G4023-G4024, ★G4007-G4008 and others arranged as far as possible in accordance with the student's interest and preparation.

Other fields: Mathematics: a minimum of 15 points including Courses 15; 25; 36; 41 or the equivalent. Calculus is a corequisite or prerequisite for Physics ★C1006 and beyond. Chemistry: one year's work. A course in the biological sciences is recommended.

The major examination consists of the Graduate Record Examination in physics and an oral examination covering the general fields of study taken to satisfy the major requirement.

3-4. General Physics. 10 points. [17]

Autumn Term: Mechanics, heat and optics. Spring Term: Electricity, magnetism and modern physics. Preceding: mathematics through trigonometry. PROFESSOR GREENBERG, and assistants. Lec. T Th 3:35-4:50. Lab. (2 hours) and one recitation hour, to be arranged at the first meeting of the class.

¹ Absent on leave, Spring Term.

NOTE: The following graduate and undergraduate courses require the written permission of PROFESSOR BOORSE.

★C1006y. General Physics, I. Mechanics and Heat. 4 points.

Formerly Course ★6. Fundamental laws of mechanics; kinematics; dynamics; work, energy, and power. Elasticity; hydrostatics. Temperature; calorimetry; change of state; gas laws. Prerequisite: Mathematics 30 or equivalent; parallel, Mathematics 31 or equivalent. No credit if preceded by Course 3–4. PROFESSOR QUIMBY and DR. SORENSEN. Lec. M W F 9. Two consecutive hours' supervised problem work to be arranged.

★C1007x. General Physics, II. Electricity and Magnetism. 3 points.

Formerly Course ★7. Wave motion and sound; electrostatics; direct currents; electromagnetism; alternating currents. Prerequisite: Course 3–4 or ★C1006y. Parallel: Course ★C1009x and Mathematics 32 or equivalent. PROFESSORS HAVENS and NOVICK. Lec. M W F 9.

★C1008y. General Physics, III. Light and Atomic Physics. 3 points.

Formerly Course ★8. Lenses and optical systems, interference and diffraction of light, atomic structure and spectra, nuclear phenomena, elementary particles. Prerequisite: Course ★C1007x. Parallel: Course ★C1010y. PROFESSOR NOVICK and ————. Lec. T Th 10 and a recitation hour to be arranged after the first meeting.

★C1009x–C1010y. Physical Laboratory. 3 points.

Formerly Course ★9, 10. Selected quantitative experiments in mechanics, heat, electricity, optics, atomic and nuclear physics. Prerequisite: Course 3–4 or ★C1006y. Parallel: Course ★C1007x, 1008y. ————. Three consecutive hours to be arranged after the first lecture in Course ★C1007x, ★C1008y.

[20. The Concepts of Modern Physics. 3 points. PROFESSOR GREENBERG.

Not given in 1961-62.]

★G4009x. Light. 3 points.

Formerly Course ★59. Physical and geometrical optics. Prerequisite: General physics and integral calculus. PROFESSOR RAINWATER. Lec. M W 4:10–5:25.

★G4003x–G4004y. Mechanics. 6 points.

Formerly Course ★63–64. An introduction to analytical mechanics. The course deals with statics, kinematics, and kinetics of the particle and rigid body and certain problems of elastic bodies. Prerequisite: General physics and integral calculus. PROFESSORS VON NARDOFF and SACHS. M W F 10.

★G4007x–G4008y. Theory of Electricity and Magnetism. 6 points.

Formerly Course ★67–68. A discussion of the phenomena of electrostatics, current flow, and electromagnetism, and the description of these phenomena in mathematical terms. The treatment is directed towards the formulation of Maxwell's equations. Considerable emphasis will be placed on alternating-current circuits, transmission lines, the motion of charged particles in electric and mag-

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netic fields. Prerequisite: Any intermediate course in electricity and magnetism (Course ★C1007x is equivalent) and differential and integral calculus. PROFESSOR KUSCH. T Th 8:35–9:50.

★C3072y. Seminar in Current Research Problems. 2 points.

Formerly Course ★72. This seminar will be devoted to a detailed study of a selected field of active research in physics. The motivation, techniques, and results obtained to the present, as well as the difficulties and unsolved problems in this particular field, will be discussed in an informal manner. Prerequisite: At least two terms' work in Courses ★G4007x–G4008y, ★G4023x–G4024y. Registration limited to 15 students. Admission only with permission of the instructor. PROFESSOR ————— and —————. W 4:10–5:25.

★C3081x–C3082y. Intermediate Laboratory Work. 4 or 8 points.

Formerly Course ★81, 82. Experiments will be available in geometrical and physical optics, vacuum tubes and their circuits, atomic physics, and nuclear physics. An individual program of experiments will be arranged for each student in accordance with her interests and previous experience. Immediately after registration and not later than the end of the second day after the beginning of classes, the registrant should consult Professor Hayner about assignment to a laboratory section and the schedule of experiments to be performed. One four-hour laboratory period weekly for each 2 points, to be arranged in consultation with instructor. PROFESSOR HAYNER. T 1:10–5; W 1:10–5; Th 6:30–10:30 p.m.; F 1:10–5; S 10–2.

GRADUATE COURSES

A description of these courses will be found in the Announcement of the Graduate Faculties.

★G4013x. Thermodynamics. 3 points.

PROFESSOR BOORSE. M W 2:10–3:25.

★G4015x. Atomic Physics. 3 points.

PROFESSOR DEVONS. M W F 11.

★G4016y. Elementary Quantum Mechanics. 3 points.

PROFESSOR LEDERMAN. M W F 9.

★G4040x–G4040y. Nuclear Physics. 3 points.

PROFESSOR STEINBERGER (Autumn Term). PROFESSOR WU (Spring Term).
T Th 11–12:15.

PSYCHOLOGY

PROFESSOR: ¹RICHARD PARDEE YOUTZ (Chairman)

ASSOCIATE PROFESSORS: TRACY S. KENDLER, ROSEMARY PIERREL

ASSISTANT PROFESSORS: BARBARA S. CANNELL, J. GILMOUR SHERMAN, THOMAS J. TIGHE

LECTURER: MARK S. MAYZNER

ASSISTANTS: ARLINE R. CHAMBERS, KATHLEEN R. FORTIER, FREDERICK W. HEGGE, JACQUELINE R. MARKS, ANDREA PENKOWER, BARBARA S. RAY

A major in psychology: The student majoring in psychology studies the basic principles, methods, and findings of psychology and is introduced to their most important applications.

The groupings of courses given below are arranged in accordance with varying interests; the student should select one of the plans (a), (b), (c), or (d). In addition to the offerings listed in this announcement, advanced senior students with special interests may take appropriate courses in the graduate school.

(a) General major. A student completing this major will have a good general background for activities in psychology or related fields such as education, business, school psychology, psychometrics, personnel and social work, and similar areas. The major may be completed by fulfilling the following requirements:

Psychology. Courses 1; 7–8; 10; 11; either 57 or 68, and other courses selected in consultation with the department to complete the required 28 points.

Other fields. One course in philosophy (3 points) or Anthropology 1, 2; a laboratory course (8 points) in zoology, physics, or chemistry. (For transfer students a laboratory course in biology will fulfill this requirement of the department.)

(b) Students who plan to obtain post-graduate professional training in clinical psychology, school psychology, vocational or rehabilitation counseling, or educational guidance should, in addition to the courses required for the general major, include Courses 15; 27, and at least two of the following: Courses 21; 26; 28; 37.

(c) Students interested in professional work in business or personnel may modify the requirements of the general major so that the required work in other fields is as follows: Economics 1–2; 17, 18; and either 19 or 20.

(d) Students who wish to take post-graduate work in experimental psychology should add the following to the requirements for the general major: Courses 57 and 68. In other fields work should include: full-year laboratory courses in two of the following: zoology (or biology), physics, or chemistry; mathematics through Course 15; one course in philosophy (3 points).

The major examination. This consists of sections on: (1) general information and integration (three hours); (2) experimental design and techniques (one hour); and (3) areas of special interest (one hour). Students fulfilling any one of the four plans will have completed preparation for the major examination.

¹ Absent on leave, Spring Term.

BARNARD COLLEGE

1x. Introduction to Psychology. 3 points. [11]

An introduction to the chief facts, principles, and problems of human behavior, through systematic study of a text, lectures, exercises, brief participation in a current investigation, and reading in special fields. Prerequisite for all other courses. PROFESSORS CANNELL, PIERREL, SHERMAN, and TIGHE.

Autumn Term (1x): Section I M W F 9. Section III M W F 11.
Section II M W F 10. Section IV T Th 10:35–11:50.

1y. Introduction to Psychology. 3 points. [11]

Same as Course 1x, but given in Spring Term.

Spring Term (1y): Section I M W F 9. Section III M W F 11.
Section II M W F 10. Section IV T Th 10:35–11:50.

7–8. Experimental Psychology. 8 points. [11]

The chief problems, methods, and results of experimental psychology. Each student conducts a series of typical individual experiments, participates in certain group experiments, prepares systematic reports of results, and is introduced to the literature of experimental psychology. Prerequisite: Course 1x or the equivalent. Written permission required for specific section. Students are expected to remain in the same section both terms. PROFESSORS KENDLER, PIERREL, SHERMAN, and TIGHE. Section I M W 1–4. Section II T Th 9–12.
Section III T Th 9–12. Section IV T Th 2–5.

10. Introduction to Psychological Statistics. 3 points. [6]

Designed to acquaint students with quantitative methods in psychology and allied subjects. Topics included are a review of basic statistics, psychological scaling methods, statistical estimation and prediction, testing hypotheses, measuring reliability and validity, and theory of test construction. Prerequisite: Course 7. PROFESSOR SHERMAN. T Th 9:10–10:25.

11x. Psychological Tests. 3 points. [10]

An introduction to standardized psychological testing with emphasis on construction methods, validation procedures, areas of application. Demonstrations and practice in test administration acquaint students with testing techniques. Each student must bring an adult and a child to the laboratory for testing at times other than those scheduled for the class. Prerequisites: Courses 7–8; 10. PROFESSOR CANNELL. M W 2–4.

11y. Psychological Tests. 3 points. [10]

Same as Course 11x, but given in Spring Term. PROFESSOR CANNELL. M W 2–4.

15. Psychology of Learning. 3 points. [3]

The chief problems, methods, and results in the study of learning. Among the topics emphasized are basic learning principles, theories of learning, retention, transfer of training, thinking and problem-solving. The relation of these basic concepts to educational problems is stressed. Prerequisite: Course 1x or the equivalent. Open to all except freshmen. PROFESSOR TIGHE. M W F 11.

21. Abnormal Psychology. 3 points. [1]

The field of psychopathology, history, more common forms of mental inadequacy and disturbance and their psychological interpretation, including princi-

ples of mental hygiene and psychotherapy. Each class makes a trip to a mental hospital for clinical demonstration of certain psychoses. Open to juniors and seniors who have had Course 1x. PROFESSOR CANNELL. M W 9, and consultation in connection with readings for the third point.

24. Applied Psychology. 2 or 3 points. [1]

Applications of psychology to problems of efficient study, of vocational guidance and selection, personnel, industrial efficiency, advertising and selling, clinical work, treatment of delinquents and criminals, and other problems of practical interest. Prerequisite: Course 1x or the equivalent. PROFESSOR TIGHE. M W 9, and conferences on a project or paper for the third point.

26. Psychology of Personality. 3 or 4 points. [3]

Contemporary theories of the development and organization of personality and their relation to other forms of psychological theory. Consideration is given to practical aspects of personal adjustment as it is influenced by changing social pressures. Prerequisite: Course 1x or the equivalent. PROFESSOR CANNELL. M W F 11, and conferences in connection with a paper for the fourth point. Fourth point requires written permission of the instructor.

27. Developmental Psychology. I. 4 points. [2]

Study of the origin and development of psychological processes with particular emphasis on the period from infancy through early childhood. The laboratory consists of the observation and measurement of children's behavior in the nursery school. Prerequisite: Course 1x or the equivalent. PROFESSOR KENDLER and assistants. Lec. M W F 10. Lab. (2 hours) T W Th or F 2-4.

27a. Developmental Psychology. I. 3 points. [2]

Lectures identical with those of 27. No laboratory work. Prerequisite: Course 1x or the equivalent. PROFESSOR KENDLER. M W F 10.

28. Developmental Psychology. II. 4 points. [2]

A continuation of the study of the development of psychological processes with emphasis on the period from early childhood through adolescence. The laboratory consists of the observation of both exceptional and normal children at various age levels and in a variety of educational and institutional settings. Prerequisite: Course 27. PROFESSOR KENDLER and assistants. Lec. M W F 10. Lab. (2 hours) to be arranged.

28a. Developmental Psychology. II. 3 points. [2]

Lectures identical with those of 28. No laboratory work. Prerequisite: Course 27 or 27a. PROFESSOR KENDLER. M W F 10.

[32. Physiological Psychology. 4 points. PROFESSOR PIERREL.

Not given in 1961-62.]

37. Social Psychology. 3 or 4 points. [6]

An introduction to the study of social behavior. Among the topics considered are social learning, interaction, group behavior, and verbal behavior. Experimental contributions to the understanding of social phenomena are emphasized. Prerequisite: Course 1x. May be counted towards the requirement in contemporary society. PROFESSOR SHERMAN. T Th 9:10-10:25, and conference hour in connection with a project or paper for the fourth point.

BARNARD COLLEGE

- 41-42. Field Work at Payne Whitney Clinic.** 6 points. [11]
Students will spend two afternoons a week at the Payne Whitney Psychiatric Clinic of the New York Hospital. This work is designed to improve the student's understanding of the work on psychiatric hospital wards. Prerequisite: Courses 7-8, and 21 and written permission of PROFESSOR YOUTZ. T 2:45-5:45 and one other afternoon, M Th or F 2:45-5:45.
- [47. **Advanced Experimental Problems.** 3 points. PROFESSOR YOUTZ.
Not given in 1961-62.]
- 48. Individual Projects.** 1, 2, or 3 points. [0]
Research projects will be planned in consultation with members of the department. Open to majors who have had Course 7-8, on written permission of the member of the department who supervises the project. PROFESSORS CANNELL, KENDLER, PIERREL, SHERMAN, TICHE and YOUTZ. Hours to be arranged.
- 57. Systems of Psychology.** 3 points. [4]
A comparative summary of the more influential schools and points of view in psychology, past and present. Each student prepares a paper reporting on an important person, institution, or subject matter area. Prerequisite: Course 7-8 or the equivalent. PROFESSOR YOUTZ. M W 1.
- 67 (also ★G4008x). Case Histories in Experimental Design.** 3 points. [8]
Formerly Course ★108. Discussion of stages in the experimental development of psychological concepts. Nonstatistical analysis of procedures and justifiable conclusions at stages of: speculation, measurement, observed relation, experiment, and theory construction. Application to articles in current journals, both experimental and clinical. Each student will choose an area of interest and prepare a paper reporting on its origins and present status. Prerequisite: Course 7-8 or the equivalent. PROFESSOR YOUTZ. T Th 11.

GRADUATE COURSES

Certain graduate courses given at Columbia University and Teachers College are open to qualified seniors with the consent of the department and the major adviser. These courses are described in the appropriate Announcements.

- ★G4021x-G4022y. Laboratory Course in Clinical Psychological Testing.**
6 points. DR. OUTHIT. Conference and three hours of laboratory to be arranged.
- ★G4033x-G4034y. Advanced Abnormal Psychology.** 6 points.
PROFESSOR ZUBIN. Th 4:10-6.
- ★G4065x-G4066y. Advanced Social Psychology.** 6 points.
PROFESSOR KLINEBERG. M 4:10-6.
- ★TU3106 (Teachers College). Speech Development and Correction; Speech and Hearing Programs.** 4 points.
Autumn Term: (Offered in two units: TU3107, 2 points; TU3108, 2 points.)
-----, F 7:30-9:10 p.m.

RELIGION

VISITING PROFESSORS: W. D. DAVIES, JAMES MUILENBERG

ASSOCIATE PROFESSOR: ¹URSULA M. NIEBUHR

ASSISTANT PROFESSOR: HAROLD STAHMER (Chairman)

LECTURER: SAMUEL Z. KLAUSNER

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

CHAPLAIN OF THE UNIVERSITY: JOHN M. KRUMM

ADJUNCT PROFESSORS: THEODOR H. GASTER, WILHELM PAUCK

ASSOCIATE PROFESSOR: JACOB TAUBES

ASSISTANT PROFESSOR: ANTON ZIGMUND-CERBU

ASSOCIATE: SUSAN TAUBES

The purpose of the program is to introduce the whole field of religion and to present the documents, history and thought of the great religious tradition of the West, and to consider their influence upon contemporary questions.

A student majoring in religion will be required to take Courses 1 (or 25); 9, 10; 14; 16; 83, 84 (or 26) and other courses to be selected in consultation with her major adviser to complete the required 28 points. Students may select certain Columbia courses for their major requirements with departmental approval. As the study of religion involves other related fields in the humanities and social sciences, a student majoring in religion is also required to take courses amounting to 12 points in two of the following departments: anthropology, English, art history, government, Greek and Latin, history, philosophy, sociology. These courses should be selected in consultation with the major adviser.

If a student intends to pursue graduate work, study of languages (such as Hebrew, Greek, Latin, German) is advised. In addition to the language courses given at Barnard College, other language courses at Columbia are open to Barnard students.

The major examination consists of: Two three-hour papers; the first, general and interpretative of the whole field studied; the second, historical, designed to test the material studied in connection with the thought and history of Judaism and Christianity.

A senior essay is not obligatory; however, students of high standing may be invited to submit one as a fulfillment for Course 35, 36. In that case students must submit a proposed topic for their research by April 1 of their junior year.

1x. Introduction to the Study of Religion. 3 points. [6]

The problem of "religion" as idea, as history, as relationship. The elements of religious reality; God, Man, World, as expressed in historical traditions of east and west. Jewish, Catholic, and Protestant forms of faith. Short reports or term paper. PROFESSOR STAHMER. T Th 9:10-10:25.

¹ Absent on leave, 1961-62.

BARNARD COLLEGE

- 1y. Introduction to the Study of Religion.** 3 points. [6]
Same as Course 1x, but given in Spring Term. PROFESSOR STAHLER. T Th
9:10–10:25.
- 9, 10. The Bible: History, Literature, and Interpretation of the Old and New Testaments.** 6 points. [7]
Autumn Term: Hebrew religion. Its beginnings and nature. Ancient myths, stories, and records. Moses; Israel as the covenant people. The prophets. The exile and development of Judaism. Term papers. PROFESSOR MUILENBERG.
Spring Term: The Graeco-Roman world and Jewish background of the first century. The Dead Sea Scrolls. The Gospels. The letters of St. Paul. The book of Acts. The spread of Christianity. Term papers. PROFESSOR DAVIES.
T Th 10:35–11:50.
- [11. Hellenism and Judaism in the Pre-Christian Era.** 3 points. PROFESSOR NIEBUHR.
Not given in 1961-62.]
- [12. Early Christianity in the Light of the Classical Heritage.** 3 points. PROFESSOR NIEBUHR.
Not given in 1961-62.]
- 13. Philosophy of Religion (same as Philosophy 9).** 3 points. [7]
The metaphysics of theism; a systematic study of concepts related to the existence and nature of God. The possibility of reasonable grounds for religious belief and the religious use of symbol and analogy will be examined. Prerequisite: Course 1x or the permission of the instructor. PROFESSOR POTTER. T Th
10:35–11:50.
- [14. Medieval Religious Thought.** 3 points. PROFESSOR STAHLER.
Not given in 1961-62.]
- 16. Classics in German and Continental Religious Thought.** 3 points. [7]
The contemporary significance of the religious writings of Luther, Calvin, Lessing, Hamann, Herder, Kant, Hegel, Schleiermacher, Kierkegaard, and Feuerbach. Short reports or term paper. Open to all except freshmen. Prerequisite: Course 1x or 25 or 26 or the permission of the instructor. PROFESSOR STAHLER.
T Th 10:35–11:50.
- [18. Dialogue and Contemporary Thought.** 3 points. PROFESSOR STAHLER.
Not given in 1961-62.]
- 25, 26. Religion in Contemporary Society and Culture.** 6 points. [1]
Autumn Term: An introduction to the theological and intellectual background of the upsurge of religion in contemporary America. Guest lecturers will discuss relevant legal, sociological, and historical questions. Course 25 may be counted towards the contemporary society requirement. Open to all except freshmen. Term paper optional. PROFESSOR STAHLER. M W F 9.
Spring Term: Religion, its meaning and its expression in contemporary culture. An analysis of the validity and nature of religious behavior as understood in the disciplines and methodologies of the social sciences and the humanities.

RELIGION

Visiting lecturers will represent selected disciplines. Term paper optional. This course may be counted towards the contemporary society requirement. Open to all except freshmen. PROFESSOR STAHLER. M W F 9.

- [31. **Religious Ideas of Man, his Nature and his World.** 3 points. PROFESSOR NIEBUHR.

Not given in 1961-62.]

- 35, 36. Independent Reading and Research.** 4 or 6 points. [0]

A program of study designed to give majors in religion an opportunity to pursue independently a subject of their choosing. Upon consultation with her adviser a qualified major may be permitted to write a senior essay which embodies the work of two terms. Consultation periods to be arranged with departmental adviser.

- 58. History of Religion in America** (same as **History 58**). 3 points. [4]

The history of religious thought and institutions in the United States from colonial times to the present. Special attention will be paid to the developments of the nineteenth and twentieth centuries. PROFESSOR HARRINGTON. M W F 1.

- 66. Theories of Religious Behavior** (same as **Sociology 66**). 3 points. [18]

Historical review of social scientific studies of religious behavior; Durkheim, Weber, Malinowski, James and Freud. The social structure of religious institutions and religious experience. Methods of empirical research in the sociology of religion. Open only to juniors and seniors. Prerequisite: Course 1x, or the equivalent; Sociology 1-2; or Anthropology 1, 2; or Psychology 13. DR. KLAUSNER. F 2-4.

- 83. Seminar: The Platonic Tradition in Western Religion.** 3 points. [0]

A critical examination of religious themes stemming from Platonic and especially Neo-Platonic sources. Among the works considered will be those of Plato, Plotinus, Proclus, and the Florentine and Cambridge Platonists. Juniors and seniors only with the permission of the instructor. PROFESSOR STAHLER. T 4-6.

- [84. **Seminar: A Study of Religious Concepts.** 3 points. PROFESSOR NIEBUHR.

Not given in 1961-62.]

RELATED COURSES IN OTHER DEPARTMENTS

Oriental Civilizations 35-36.

Humanities 41, 42.

★**History C1105x-C1106y. Ancient History.**

The following courses at Columbia College are open to Barnard students:

★**W3214x. Classics of the Jewish Tradition.** 2 points.

DR. WEISS. M W 2.

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- ★W3215x. **Classics of the Christian Tradition.** 2 points.
DR. KRUMM. W 6:10–7:50.
- [★W3235x. **Catholic Thought after Trent.** 3 points.
PROFESSOR ULANOV.
Not given in 1961-62.]
- ★W3236y. **Contemporary Catholic Thought.** 3 points.
PROFESSOR ULANOV. Th 4:10–6:40.
- ★W3301x. **Oriental Religions.** 2 points.
PROFESSOR ZIGMUND-CERBU. M W 2.
- ★W3305y. **History of Buddhism in India and the Far East.** 2 points.
PROFESSOR ZIGMUND-CERBU. M W 2.
- ★W3440y. **Sociology of Religion.** 3 points.
MISS SONTAG. T 2:10–4. Conference hour to be arranged.
- ★W3491x. **Seminar in Great Religious Books, I. Autumn.** 2 points.
PROFESSOR TAUBES with the collaboration of PROFESSOR KAHN and MISS SONTAG.
T 4:10–6.
- ★W3492y. **Seminar in Great Religious Books, II. Spring.** 2 points.
PROFESSOR TAUBES with the collaboration of PROFESSOR ZIGMUND-CERBU and MISS SONTAG. T 4:10–6.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open with the consent of the department and the major adviser to qualified seniors. Descriptions may be found in the Announcement of the Graduate Faculties. The following courses are recommended:

- ★G4216y. **Representative Protestant Thinkers.** 3 points.
PROFESSOR PAUCK. T 4:10–6.
- [★G4218y. **Protestantism and Culture.** 3 points.
PROFESSOR PAUCK.
Not given in 1961-62.]
- ★G4302y. **Comparative Mythology.** 2 points.
DR. TAUBES with the collaboration of PROFESSOR PORADA. M 4:10–6.
- ★G4311x. **Ancient Religions.** 2 points.
PROFESSOR GASTER. Th 4:10–6.
- ★Religion-Sociology G4336y. **Islam and Islamic Society.** 2 points.
DR. KLAUSNER. F 10–11:50.

RUSSIAN

LECTURERS: CATHERINE N. COULTER, LYDIA W. KESICH (Representative), ZOYA A. TRIFUNOVICH

OFFICERS OF COLUMBIA UNIVERSITY OFFERING COURSES OPEN TO BARNARD STUDENTS:

ASSOCIATE PROFESSOR: RUFUS W. MATHEWSON, JR.

ASSISTANT PROFESSORS: FRANKLIN C. D. REEVE, ROBERT L. BELKNAP

INSTRUCTOR: RICHARD A. GREGG

ASSOCIATE: ROSE RASKIN

The study of Russian gives the student a key to a rich cultural and literary tradition and introduces her to one of the important critical languages of our time. In many professions and specializations there is need for people with the ability to use the language.

A major in Russian is open to Barnard students in cooperation with Columbia College. The program is designed to provide a working knowledge of the language and enable the student to read the great Russian writers with facility and critical appreciation. Majors are expected to take 28 points of work above the elementary level. Normally these will include Courses 3–4; ★C3333x; ★C3334y; ★C3335x–C3336y; ★C3595x, and ★C3596y. Courses ★C1225x and ★C1226y are also required for the major, although they may not be included within the 28 points required for the degree.

Allied subjects: History 37, 38 and Government 15 are especially recommended to majors. Students majoring in Russian should also select courses in other literatures and the humanities.

The major examination consists of a four-hour written section and an oral section.

Foreign language requirement for the degree: All students who intend to satisfy the foreign language requirement in Russian must take a placement examination before registration. This examination tests the student's knowledge of grammar, her ability to comprehend written and spoken Russian, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others may do so by completing Courses ★C3333x and ★C3334x or ★C3335x–C3336y with a minimum grade of C–, or Course ★C3333x or Course ★C3335x with a minimum grade of B+.

1–2. Elementary Full-Year Course. 8 points. [15]

The essentials of the spoken and written language, with classroom instruction devoted mainly to the study of grammar and to reading; oral practice sessions held in small groups. Work in the language laboratory is part of the course.

MRS. KESICH. Language analysis: Section I M W F 10. Section II M W F 12. Oral practice: Two hours to be arranged.

3–4. Intermediate Course. 8 points. [5]

A review and continued study of grammar; composition, reading of moderately difficult texts, and oral practice groups. Prerequisite: Course 2 or the equivalent.

MRS. TRIFUNOVICH. Language analysis: M W F 2. Oral practice: Two hours to be arranged.

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★C1225x. Introduction to Russian Literature and Culture. 3 points.

Formerly Course ★25. The major monuments of Russian literature and culture from earliest times to 1800, with some emphasis upon historical background and the developemnt of intellectual trends, cultural movements in painting, architecture, etc. A knowledge of Russian is not required. PROFESSOR BELKNAP. M W F 1.

★C1226y. The Russian Novel. 3 points.

Formerly Course ★26. A survey of forms of the novel with examples from Pushkin through Pasternak. A knowledge of Russian is not required. PROFESSOR REEVE. M W F 1.

★C1227x. Tolstoy and Dostoevsky. 3 points.

Formerly Course ★27. Analysis of the major works of the two writers. A knowledge of Russian is not required. PROFESSOR BELKNAP. T Th 11–12:15.

★C1229x. Russian Drama and Theatre. 3 points.

Formerly Course ★R29. A survey of Russian dramatic literature from its beginnings to the present. A knowledge of Russian is not required. MR. GREGG. T Th 11–12:15.

★C3333x. Readings in Russian Prose. 3 points.

Formerly Course ★33. An introduction to critical reading in Russian. Excerpts in the original from novels and selections of short works in prose discussed and analyzed with emphasis on language. Problems of translation. Occasional short translations. Prerequisite: a grade of B– or better in Course 4, or the equivalent of five terms of Russian, with the permission of the instructor. MR. GREGG. M W F 12.

★C3334y. Pushkin. 3 points.

Formerly Course ★34. A close reading of selected works in the original, with lectures on Pushkin's life, times, and literary achievement. Prerequisite: a grade of B– or better in Course 4, or the equivalent of five terms of Russian, with the permission of the instructor. PROFESSOR BELKNAP. M W F 12.

★C3335x–C3336y. Advanced Composition and Conversation. 6 points.

Formerly Course ★35–36. For students who want more skill in writing, speaking, and reading Russian. Recommended for students who plan to use Russian in their studies. Prerequisite: Course 4 or equivalent. MISS RASKIN. M W F 2.

★C3452y. Readings in Russian Poetry. 3 points.

Formerly Course ★52. Readings in the original and discussion, for the most part in Russian, of selected works of Russian poets of the nineteenth and twentieth centuries. PROFESSOR REEVE. M W F 2.

[★C3461x. Chekhov and the Short Story. 3 points. PROFESSOR MATHEWSON.

Not given in 1961-62.]

★C3595x. Colloquium in Literary Criticism. 3 points.

Formerly Course ★95. A survey of Russian literary criticism from the early nineteenth century to the present, with considerable attention to the work of the Formalists. Open only to seniors with the permission of the instructor. PROFESSOR REEVE. W 3–5.

★C3596y. Seminar. 3 points.

Formerly Course ★96. Application of the critical techniques learned in Course ★C3595x to major works of literature. PROFESSOR BELKNAP. W 3–5.

GRADUATE COURSES

Certain graduate courses given at Columbia University are open to qualified seniors with the consent of the representative and the major adviser. A description of these courses will be found in the Announcement of the Graduate Faculties.

★G4103x. History of the Russian Language: Introductory Course. 3 points.

PROFESSOR STILMAN. T Th 2.

★G4033y. (Russian Institute). Soviet Russian Literature. 3 points.

PROFESSOR MATHEWSON. T Th 5.

SOCIOLOGY

PROFESSORS: MIRRA KOMAROVSKY (Chairman), BERNARD BARBER

ASSOCIATE PROFESSOR: GLADYS MEYER

ASSISTANT PROFESSOR: RENÉE CLAIRE FOX

LECTURER: SAMUEL Z. KLAUSNER

Sociology introduces students to the scientific study of society. The basic problems common to all human societies and the varied institutional solutions to these problems make up one large area of sociological interest; hence the sociological study of the family, social class, economic and political institutions, religion, science, ideology, etc. The study of rural and urban communities, human relations in groups, social structure and personality are other areas of sociological interest. So also is the understanding of social change. Sociology is concerned not only with the normal functioning of social institutions but also with social problems such as racial and minority problems, industrial conflict, crime, and other areas of social disorganization. In studying these subjects, materials about American society are given primary emphasis. However, comparative materials from other societies, pre-literate and more highly developed, are extensively used. Finally, sociology seeks to acquaint students with its methods of investigation, from which students can learn important facts about scientific method in general. A student majoring in sociology will be required to take: Course 1-2 and other sociology courses to be selected in consultation with the major adviser. Courses 32; 33; 34; 39; 40; 41; 42; 43, 44 are strongly recommended. Economics 17 is the only course given outside the department which may count towards the major.

Other social sciences: In view of the essential unity of the social sciences, a major in sociology is required to take courses amounting to at least 12 points to be distributed among two of the following departments: anthropology, economics, geography, government, history, philosophy, psychology, religion.

See also Interdepartmental Offerings, page 48.

Major examination: A three-hour written examination in addition to the Graduate Record Examination.

1-2. Introduction to Sociology. 6 points. [18]

An introduction to sociological analysis with emphasis on contemporary American society. Autumn Term: The structure of society. The family and the other major social institutions; class stratification; social groups, codes, and control; ecology and social organization of modern communities. Spring Term: Social change and social problems. Population and migrations, race and group conflict, community disorganization and crime. Problems of social reorganization. Fulfills the requirement in contemporary society. PROFESSORS KOMAROVSKY, BARBER, MEYER, and Fox.

Section I M W F 10. (Not open to freshmen).

Section II M W F 11. (Not open to freshmen).

Section III T Th 10:35-11:50. (Open to freshmen).

Section IV M W F 2. (Open to freshmen).

- 21-22. Introduction to Social Work.** 6 points. [2]
 The social and economic conditions that lead people to seek help from welfare agencies. The structure and support of public and private welfare in the United States. Current trends in the philosophy of social work. Comparative welfare systems.
 Field work for at least 1 additional point each term (one-half day a week) is required for all those planning to enter schools of social work. (See Course 81, 82.) It is optional for others. Placements are arranged in approved social agencies offering supervision. Open to juniors and seniors. Prerequisite: 6 points of social science other than history. PROFESSOR MEYER. M W F 10.
- [31. Marriage and the Family.** 3 points. PROFESSOR KOMAROVSKY.
 Not given in 1961-62.]
- 32. The Family.** 3 points. [9]
 A systematic study of the American family using comparative materials from other societies. The family cycle from courtship through parenthood and old age. Ethnic and class differences in family life. Recent developments in family theory and research in sociology and related disciplines. Prerequisite: Course 1-2. PROFESSOR KOMAROVSKY. T 2-4 and conferences.
- 33. The Community. I. Rural-Urban Sociology.** 3 points. [4]
 Cultural, ecological, and institutional patterns in the growth of community life and organization in city and country. Social structure and processes exemplified in recent studies of communities in America and abroad. Prerequisite: Course 1-2. PROFESSOR MEYER. M W F 1.
- 34. The Community. II. Ethnic and Minority and Intergroup Relations.** [4]
 3 points.
 The composition and distribution of populations; major and minority groups, particularly within the United States. The role of these groups in the structure of the community, their particular cultures, internal organization, and problems of individual adjustment. Prerequisite: Course 1-2. PROFESSOR MEYER. M W F 1.
- 37. Junior Readings.** 2 points. [9]
 Students will read selected classics and other books and monographs exemplifying important developments in contemporary sociology. Brief written assignments. Prerequisite: Course 1-2. PROFESSOR KOMAROVSKY. T at 2 or 3.
- 39. Comparative Social Institutions.** 3 points. [5]
 The social institutions that exist in all societies; their different forms. Comparative materials from non-literate, other civilized (China, India, medieval Europe), and contemporary (U.S., Soviet Russia, France, Britain) societies. Principles of institutional patterning and change. Prerequisite: Course 1-2. PROFESSOR BARBER. M W F 2.
- 40. American Social Classes.** 3 points. [5]
 Analysis of modes of living, and group alignments at different social levels in American urban life. Problems of power; the extension of bureaucracy and the growth of white-collar occupations. Prerequisite: Course 1-2. PROFESSOR BARBER. M W F 2.

BARNARD COLLEGE

- 41, 42. History of Sociological Theory.** 6 points. [10]
The major contributions of Comte, Spencer, Sumner, Cooley, Durkheim, Simmel, Sorokin, Parsons, Merton, Weber, and other contemporary American sociologists. Prerequisite: Course 1-2. PROFESSOR KOMAROVSKY. W 3-5.
- 43, 44. Methods of Sociological Research.** 6 points. [3]
Various qualitative and quantitative methods of social research are presented both from a logical and a sociological point of view. Lectures, critical reading of studies in conjunction with field work exercises. Prerequisite: Course 1-2. Course 43 is prerequisite for Course 44, except by special permission of the department. PROFESSOR FOX. M W F 11.
- 46. Social Structure and Personality.** 3 points. [7]
Critical examination of the theory and research studies dealing with the relations between social structure and personality. Open to juniors and seniors. Prerequisite: Course 1-2. PROFESSOR FOX. T Th 10:35-11:50.
- 66. Theories of Religious Behavior (same as Religion 66).** 3 points [18]
Historical review of social scientific studies of religious behavior; Durkheim, Weber, Malinowski, James, and Freud. The social structure of religious institutions and religious experience. Methods of empirical research in the sociology of religion. Open only to juniors and seniors. Prerequisite: Course 1-2; or Anthropology 1, 2; or Psychology 1x; or Religion 1x, or the equivalent. DR. KLAUSNER. F 2-4.
- 81, 82. Field Work.** 2 to 6 points. [0]
Field work may be elected by juniors and seniors in connection with some courses. Plans for field work must be approved by the instructor of the course to which the field work is attached and by Professor Meyer. Not more than 2 points of field work may be counted towards the fulfillment of the major requirement in sociology. Hours to be arranged.
- 97. Senior Seminar.** 3 points. [0]
Social structure and social change in a non-Western society. India will be the area studied in 1961-62. Open to senior majors and to other seniors who have had at least 12 points of sociology. PROFESSOR MEYER. T 4-6. Individual conferences.
- 98. Individual Projects.** 3 points. [0]
Individual study under supervision of members of the department. Open to junior and senior majors with the permission of the instructor. PROFESSORS KOMAROVSKY, MEYER, BARBER, and FOX. Hours to be arranged.

COLUMBIA COURSES

Certain undergraduate and graduate courses given at Columbia University are open to qualified seniors with the consent of the department and the major adviser. A description of these courses will be found in the Announcements of Columbia College and the Graduate Faculties. Among those suitable for Barnard students the following are recommended:

SOCIOLOGY

★C3112y. Social Change and Character Structure in the United States.

PROFESSOR BELL. M W F 1.

★C3533x—C3534y. Changing Institutions in New Nations.

PROFESSOR WALLERSTEIN. Th 4:10—6.

★G6019x. Sociology of Knowledge.

PROFESSOR BARBER. T 4:10—6.

★G6029x—G6030y. Industrial Sociology.

PROFESSOR ROGERS. T 8:10—10 p.m.

★G4061x. Political Sociology.

PROFESSOR LINZ. T 10—11:50.

★G4093x. Public Opinion Research.

PROFESSOR HYMAN. W 2:10—4.

SPANISH

PROFESSORS: EUGENIO FLORIT, AMELIA A. DE DEL RÍO (Chairman)

ASSOCIATE PROFESSORS: MARGARITA U. DA CAL, LAURA R. DE GARCÍA-LORCA

INSTRUCTOR: ELECTA A. RODRÍGUEZ

LECTURERS: MARIA TERESA ESCOBAL, LUCÍA G. PROODIAN

A major in Spanish is designed to enable the student to understand, speak, and write the language with ease, have a general knowledge of the history and cultural development of Spain and the Spanish American world, with a more profound knowledge of the literature and art of Spain and the Hispanic Republics. A student should concentrate at the same time either on a literary genre, whether it be poetry, the novel, or the theatre, or a period, classical or modern.

A student majoring in Spanish will be required to take Courses 13, 14; 15a–16a; 19; 22; and 23–24; and either 17–18; 25–26; 27–28, or a more advanced course to be chosen in consultation with the department. Courses 1–2; 3, 4; 3a, 4a, and 9, 10 do not count towards the major requirement.

Other fields: The following courses are recommended: Anthropology 4; 9; Classical Civilization 57; Art History 75, 76; French 7–8; German 55, 56; History ★W3199–W3200; Italian ★W3535–W3536; ★G4094; Philosophy 1; 43; 61, 62. A major in Spanish must broaden her study of Spanish culture by relating it to other cultures which have influenced or been influenced by it.

The major examination consists of a three-hour written examination on Spanish literature; a three-hour written examination on Hispanic civilization and Spanish American literature; and a half-hour oral examination on literature and culture. All examinations are conducted in Spanish.

Foreign language requirement for the degree: All new students who intend to satisfy the foreign language requirement in Spanish must take a placement examination before registration. The student will be tested in her knowledge of grammar and her ability to understand, speak, and write Spanish. Those who receive a sufficiently high grade will automatically fulfill the requirement. All others may do so by completing Spanish 5, 6 with a minimum grade of C–, or Spanish 5 with a minimum grade of B+.

LANGUAGE COURSES

1–2. Elementary Full-Year Course. 8 points. [17]

Grammar, reading, conversation. May not be taken parallel to elementary Italian. Laboratory work is required. PROFESSOR DEL RÍO, MRS. ESCOBAL and MRS. RODRÍGUEZ. Section I M T W Th F 9. Section II M T W Th F 2.

3, 4. Intermediate Course. 6 points. [17]

A rapid review of grammar and syntax, conversation, and reading, discussion and analysis of important works in Spanish and Spanish American literatures. Monthly book reports on outside reading. DR. PROODIAN and MRS. RODRÍGUEZ. Section I M W F 9. Section II M W F 1.

3a. Intermediate Course in Grammar and Composition. 3 points. [3]

The equivalent of Course 4 given for students who have had three years of high school Spanish. Emphasis on oral self-expression and written compositions on outstanding novels and poetry. Monthly book reports on outside reading. MRS. RODRÍGUEZ. M W F 11.

4a. Advanced Course in Grammar and Composition. 3 points. [3]

Emphasis on original composition and translation from Spanish into English and from English into Spanish. Prerequisite: Course 3a or 4. MRS. RODRÍGUEZ. M W F 11.

5, 6. Spanish through Literary Analysis. 6 points. [17]

Discussion in Spanish of texts, oral and written composition, reports on outside reading with emphasis on twentieth century writers, occasional translation into English. Prerequisite: Course 3, 4, or three years of high school Spanish. PROFESSOR DA CAL, DR. PROODIAN, and MRS. RODRÍGUEZ. Section I M W F 9. Section II T Th 9, Th 2.

9, 10. Intermediate Spanish Conversation. 2 points. [0]

Open only to students taking another Spanish course, either term. MRS. ESCOBAL. Section I T 3. Section II Th 3.

11–12. Advanced Spanish Conversation. 2 points. [0]

Discussion and reports on Spanish subjects. Prerequisite: Course 9, 10. Open only to students taking another Spanish course, either term. MRS. ESCOBAL. Th 4.

31–32. Oral Spanish, Advanced Course. 4 points. [0]

Discussion based on contemporary Hispanic writers and literary trends, and on Spanish painters; practice in the recitation of poetry and plays. Prerequisite: Course 3, 4 or 3a, 4a, or permission of instructor. Two class hours and one conference. PROFESSORS DA CAL and FLORIT. T Th 3.

LITERATURE COURSES¹**13, 14. The Culture of the Hispanic Countries.** 4 points. [6]

Autumn Term: The history and culture of Spain. Spring Term: The development of Spanish American culture. Lectures and monthly book reports. Prerequisite: Course 3, 4 or 5, 6. Autumn Term: PROFESSOR GARCÍA-LORCA; Spring Term: PROFESSOR FLORIT. T Th 9.

15–16. Introduction to Spanish Literature. 6 points. [17]

Lectures on the history of Spanish literature, reading, reports, and discussion of the outstanding works and authors up to the twentieth century. Not open to majors. This course is not divisible under any circumstances. Prerequisite: Course 3, 4 or 3a, 4a, or 5, 6. PROFESSORS DA CAL and GARCÍA-LORCA. Section I M W F 10. Section II M W F 11.

¹ All courses are conducted entirely in Spanish.

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- 15a–16a. Spanish Literature.** 6 points. [2]
Spanish literature from its origins to the end of the seventeenth century, with emphasis on Cervantes. Monthly reports on novels or dramas. Intended for students majoring in Spanish and Spanish-speaking students. Open also to qualified students on written permission of the instructor. Not open to those who have taken Course 15–16. This course is not divisible under any circumstances. Prerequisite: Course 3, 4 or 3a, 4a, or 5, 6. PROFESSORS DEL RÍO and FLORIT. M W F 10.
- 17–18. The Spanish Drama of the Golden Age.** 6 points. [3]
Winter Term: Reading and discussion of the medieval antecedents and the sixteenth century theatre, including Lope de Vega. Spring Term: The theatre after Lope de Vega with emphasis on Calderón. Monthly book reports. Prerequisite: Course 15–16, 15a–16a or the written permission of the department. PROFESSORS DEL RÍO and DA CAL. M W F 11.
- 19. Nineteenth Century Literature in Spain.** 3 points. [9]
Romantic drama and poetry; the realistic novel. A paper on Galdós. Prerequisite: Course 13, 14, 15–16, 15a–16a, or the written permission of the department. PROFESSOR DA CAL. T Th 2.
- 22. Contemporary Spanish Literature.** 3 points. [9]
A study of outstanding authors from 1898 to 1936. Three written book reports on the main novelists. Prerequisite: Course 13, 14, 15–16, 15a–16a, or the written permission of the department. PROFESSOR GARCÍA-LORCA. T Th 2.
- 23–24. Spanish American Literature.** 4 points. [8]
Lectures and study of the main literary works up to the present time. Book reports on the principal novels. This course is not divisible under any circumstances. Prerequisite: Course 13, 14, 15–16, 15a–16a, or the written permission of the department. PROFESSOR FLORIT. T Th 11.
- [25–26. Cervantes.** 6 points. PROFESSOR DEL RÍO.
Not given in 1961-62.]
- [27–28. Spanish Poetry.** 6 points. PROFESSOR FLORIT.
Not given in 1961-62.]
- 29, 30. Special Reading.** 4 points. [0]
Discussion on assigned reading to coordinate and supplement the work done in other courses; review of tendencies and literary movements and developments of main literary genres. Open only to seniors. MEMBERS OF THE DEPARTMENT. T Th 3.
- 33, 34. Masterpieces of Spanish Literature in Translation.** 4 points. [9]
A study of representative works intended to give students with no knowledge of Spanish an idea of the originality and character of the literature of Spain, its relationship to the kindred arts and the scope of its contribution to Western culture. Autumn Term: Middle Ages and Renaissance, from the *Poem of Mio Cid* to Cervantes inclusive; Spring Term: From the baroque period to modern times,

Calderón to García-Lorca. Lectures, discussions, and written reports. Conducted in English. PROFESSORS DEL RÍO, FLORIT, DA CAL, and GARCÍA-LORCA. T Th 2.

★C3811x–C3812y. **Latin-American Seminar.** 8 points.

A seminar which examines the mainsprings of civilization and cultural change in Latin America. Designed for senior majors in Latin America Areas. PROFESSORS DE MORELOS and RABASSA. M 3–5.

ZOOLOGY

PROFESSORS: ¹INGRITH J. DEYRUP, AUBREY GORBMAN, JOHN A. MOORE
(Chairman)

ASSISTANT PROFESSOR: LUCENA J. BARTH

INSTRUCTOR: PATRICIA L. DUDLEY

ASSISTANTS: ELLEN BATT, ROBERTA BRUCK, ROSALIE DE GIOVANNI, EUGENIE J. DUBNAU, JEANNE SCHNEEBAUM

The major program is designed to serve a variety of needs. Some students major in zoology who, though interested in general education, desire specific knowledge of living organisms. Other students specialize in zoology in anticipation of graduate work in this field, or in preparation for medical or dental school. Still others plan a career in government, educational or private research organizations, or wish to teach at the elementary or intermediate school level.

The sequence of courses to be followed will depend in part on the ultimate aims of the student, but some general advice can be offered. The most important thing to keep in mind is that careful planning of the entire course sequence in zoology and related fields is necessary. This is necessary in order to provide a balanced program and to assure that any prerequisites for advanced courses are completed in proper time.

All students majoring in zoology should take Course 1–2 during the first year if possible. Beyond this, there are no specific course requirements, but the following has been found to be a satisfactory sequence for most majors; second year: Courses 3 and 14; third year: Courses 8 and 13; fourth year: Courses 16 and 72.

Chemistry 1–2 and 41 fulfill the minimum requirements in chemistry for graduate work in zoology and for entrance into medical school, and this amount is generally regarded as the minimum for zoology majors as well. A year of general physics, 3–4, should be taken by majors who plan on graduate work or a career in medicine. This may be taken during the senior year. Graduate work in zoology requires a knowledge of German and French.

Students are encouraged to do summer work in zoological laboratories, such as the Marine Biological Laboratory at Woods Hole, Mass. Assistance towards such work may be awarded to qualified students through the Edna Henry Bennett Memorial Scholarship Fund.

The major thesis represents an attempt to correlate and analyze the basic concepts of zoology. Further information about it may be obtained from members of the department.

1–2. General Zoology. 10 points. [1]

An introduction to the data, methods, and philosophy of modern zoology. The development of genetic concepts, the problems of embryology, evolution, and physiology. The laboratory work consists largely of a study of important invertebrates and vertebrates, together with some exercises on cell structure, genet-

¹ Absent on leave, 1961–62.

ics, embryology, and physiology. PROFESSOR MOORE, DR. DUDLEY, and assistants. Lec. M W F 9. Lab. (4 hours) M 1-5; T 2-6; W 1-5; Th 2-6; F 1-5; T Th 10-12.

1a-2a. General Zoology. 6 points. [1]

Lectures identical with those of Course 1-2. No laboratory work. To follow or parallel a laboratory science. PROFESSOR MOORE. M W F 9.

3. A Study of Biological Concepts. 4 points. [6]

An historical survey will be made of discoveries in a specific field of biology, and these will be analyzed as examples of the manner in which scientific knowledge is accumulated. Prerequisite: Course 1-2 or special permission. PROFESSOR BARTH. Lec. T Th 9. Lab. (4 hours) F 1-5.

8. Invertebrate Zoology. 4 points. [7]

Evolution of invertebrate animals. Comparative study of microscopic and gross structure, functional anatomy, life histories, behavior and distribution of invertebrates. Major emphasis on concepts of interrelationships between animal phyla. Some field trips to representative habitats. Prerequisite: Course 1-2. May be taken parallel to Course 2 with permission of instructor. DR. DUDLEY. Lec. T Th 10. Lab. (4 hours) M 1-5 or Th 2-6.

13. Histology and Histological Methods. 5 points. [8]

The microscopic anatomy of vertebrates studied in its descriptive, developmental, comparative, and functional aspects. A portion of the laboratory work is devoted to preparation of tissues for microscopic study. Prerequisite: Course 1-2. PROFESSOR GORBMAN. Lec. T Th 11. Lab. (4 hours) W 1-5 or Th 2-6.

14. Embryology. 4 points. [8]

The development of the vertebrate animal, with a consideration of some of the factors which influence development. Prerequisite: Course 1-2. May be taken parallel to Course 2 with permission of the instructor. PROFESSOR GORBMAN. Lec. T Th 11. Lab. (4 hours) W 1-5 or Th 2-6.

[16. General Physiology. 6 points. PROFESSOR DEYRUP.

Not given in 1961-62.]

61, 62. Problems in Zoology. [0]

Work will be planned to suit the needs of the student after consultation with the instructors. PROFESSORS DEYRUP, GORBMAN, BARTH and DR. DUDLEY. Hours and credit by arrangement.

72. Senior Seminar. 2 points. [0]

Reading of literature and discussion of fundamental problems of zoology. PROFESSOR BARTH. Conference period: T 2.

★G6129x. Comparative Endocrinology. 3 points. [1]

Comparative physiology, morphology and development of the endocrine systems. The relation of endocrine secretions to environmental adaptations, behavior and reproduction of animals. Prerequisite: Courses 1-2 and 13. Organic chemistry is recommended. PROFESSOR GORBMAN. M W F 9. 29 Milbank.

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★G6130y. Experimental Procedures in Endocrinology. 3 points. [0]

The basic laboratory procedures used in the study of endocrine phenomena, including familiarization with biochemical preparations, bioassay, surgery, and radioisotopic tracers. Prerequisite: Course ★G6129x and written permission of the instructor. PROFESSOR GORBMAN. Lab. M 1-4 and three hours to be arranged.

[★G6151x. **Vertebrate Physiology.** 6 points. PROFESSOR DEYRUP.

Not given in 1961-62.]

[★G6415x. **Vertebrate Physiology.** 3 points. PROFESSOR DEYRUP.

Not given in 1961-62.]

VIII. Professional Schools

Professional and graduate training is available at Columbia University in many different areas. Barnard College keeps in close touch with the Schools and the Graduate Faculties and Class Advisers give pertinent advice concerning them.

The requirements for admission vary: in some instances a Bachelor's degree is essential; in others a student is eligible after two or three years of college study. Since only a limited number of students can be accommodated, the Office of University Admissions selects the most promising applicants. Announcements may be obtained from the Secretary of Columbia University. General information concerning admission requirements of specific professional schools and certain graduate programs follows.

THE PROFESSIONAL OPTION

Under the plan of "professional option" an exceptionally good student may receive the Bachelor of Arts degree from Barnard College after the completion of three years of undergraduate work and the first year in a professional school. To be eligible for this privilege the student must have completed at Barnard 90 points of academic work which includes all specific requirements, a major of 28 points, and the major examination or major thesis.

Students transferring to Barnard from other institutions may be granted "professional option" only if they have a superior academic record. In no case will this permission be given until the student has done a minimum of a full year's work at Barnard.

Application for admission to this plan must be made to the Committee on Instruction in March of the preceding year.

ARCHITECTURE

The School of Architecture offers a course of study leading to the professional degree of Bachelor of Architecture. Under normal conditions, this degree may be obtained in four years.

The work at Barnard should include, among other courses, a full year each of English, a foreign language (preferably French or German), mathematics, through differential and integral calculus, physics, and either economics, history, government, or sociology. For students not candidates for the Barnard degree, at least one year (30 points) of college work, but preferably more, is required for admission to the School of Architecture.

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BUSINESS

The Graduate School of Business offers: a four term course of study leading to the degree of Master of Business Administration for college graduates without previous preparation in business; and advanced studies leading to the degree of Doctor of Philosophy.

Applications for a degree program will be accepted only from students who plan to study during the day-time.

To meet the educational needs of college graduates who wish to undertake advanced business training while employed, special students with appropriate qualifications will be admitted for study, without degree credit, after an interview with the Assistant Dean, 307 Business.

DENTAL HYGIENE

A two-year course for Dental Hygienists is offered at the School of Dental and Oral Surgery, leading to the Bachelor of Science degree in Dental Hygiene. The minimum requirement for admission is two years (60 points) of college work. The preparatory work at Barnard should include the satisfactory completion of the following requirements: English, 6 points; biological science or chemistry, 3 points; sociology or psychology, 3 points. Applicants who lack not more than 8 of the 60 credits required for admission will be considered for matriculation on condition that the 8 credits be earned during the summer session between the junior and senior years.

This profession is limited to women and is controlled by state law and licensing examination. Graduates are qualified as dental hygiene teachers and public health dental hygienists.

Two scholarships of \$300 each are offered each year, provided by the Dental Hygienists' Alumnae Association of Columbia University.

DENTAL AND ORAL SURGERY

The School of Dental and Oral Surgery offers a four-year course of study leading to the degree of Doctor of Dental Surgery. The preparatory work at Barnard should comprise a minimum of 6 points each in English composition and literature, physics, zoology, inorganic chemistry, and organic chemistry. The Admissions Committee of the School of Dental and Oral Surgery will consider carefully the entire pre-dental record and select the most promising candidates. The minimum requirement for admission is three years (90 points) of college work.

ENGINEERING

The School of Engineering offers undergraduate programs in chemical, civil, electrical, industrial, mechanical, mining, metallurgical, mineral,

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and nuclear engineering. It also offers programs in the applied sciences: engineering, geology, engineering science in mechanical engineering, flight sciences, engineering mathematics, engineering mechanics, engineering science in chemical engineering, and nuclear engineering science. Each of these programs is a blend of four groups of studies: first, those designed to broaden the student's general cultural education; second, those intended to give her competence in mathematics and the natural sciences; third, the basic engineering sciences such as mechanics of materials; and fourth, those by which she will become thoroughly grounded in the application of fundamental principles to her specific field of engineering.

Because of the scope of these programs the first three years of the five-year program leading to the degrees of Bachelor of Arts and Bachelor of Science are spent under the jurisdiction of Barnard College, and a minimum of courses are taken in the engineering school. After successful completion of the first three years' work, the student applies for admission to the School of Engineering, and the remaining two years of more specialized engineering study are taken under the School of Engineering. This program is known as the "professional option" program.

Although the above plan is educationally desirable, it is possible in some cases for the exceptional student with advanced standing to complete the prescribed subjects with two years in Barnard College and two years in the School of Engineering. This program leads only to the degree of Bachelor of Science.

Students who are interested in engineering should offer at entrance to Barnard: mathematics through trigonometry, physics, and if possible, chemistry, in addition to the general admission requirements. For details the student should consult the Dean of the School of Engineering.

Further information about the engineering program and the advanced degrees may be obtained from the Announcement of the School of Engineering.

INTERNATIONAL AFFAIRS AND AREA INSTITUTES

The purpose of the School of International Affairs is to provide a course of instruction which will equip a limited number of students for staff and administrative posts in international fields. Emphasis is upon the acquisition of an adequate knowledge and understanding of the field generally, and a specialized knowledge of one area of the world. The degree of Master of International Affairs will be awarded upon the satisfactory completion of the course.

The basic requirements for admission are: (a) a superior undergraduate record and (b) a Bachelor's degree from an approved institution. Students in the School of International Affairs as well as in other graduate

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departments of the University may elect to take an area concentration in one of the several area institutes: East Asian Institute, Near and Middle East Institute, the Program on East Central Europe, Russian Institute, European Institute.

Further information may be obtained from the Office of University Admissions.

JOURNALISM

The Graduate School of Journalism offers a one-year course leading to the degree of Master of Science. A Bachelor's degree is required for admission to this school. Undergraduate work should, wherever possible, include courses in English composition, government of the United States, history since 1914, economics and sociology. The applicant must have completed courses totaling 96 points in liberal arts and sciences.

LAW

The School of Law offers a three-year course of study leading to the degree of Bachelor of Laws. The preparatory work at Barnard must be of good grade. Although there is no required pre-law curriculum, students would be well advised to take courses in English, American political history, English political and constitutional history, economics, and in logic or philosophy or both. An undergraduate degree is generally a prerequisite for admission, although in rare instances a student whose academic record and aptitude for the study of law are exceptional may be admitted after three years (90 points) of college work. Admission is on a competitive basis. All applicants for admission to the Law School are required to take an aptitude test. This test will be given in many locations throughout the United States several times during the academic year. For further information write to the Educational Testing Service, 20 Nassau Street, Princeton, New Jersey.

LIBRARY SERVICE

The School of Library Service offers a one-year course of study leading to the degree of Master of Science. A Bachelor's degree in liberal arts, acceptable scores in the Graduate Record Examination, and evidence of fitness for library work are required for admission. Undergraduate courses should include two years' study of a modern foreign language.

MEDICINE

The College of Physicians and Surgeons offers a four-year course of study leading to the degree of Doctor of Medicine. The preparatory

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work at Barnard must be of good grade and must include the requirements prescribed by the New York Board of Regents as follows: approved courses in English, physics, and biology, covering at least one academic year each, and approved courses in chemistry, covering at least one and one-half academic years, including an approved course in organic chemistry.

Before admission to the medical school, the entire pre-medical record of each applicant is carefully examined in order that those who are adjudged the most promising candidates for the profession may be selected. While the minimum requirement for admission is three full academic years of college work, the complete college course of four years is considered the most desirable preparation.

NURSING

Columbia University offers a course of two years and nine months' duration leading to the degree of Bachelor of Science. This program is conducted on the campus of the Columbia-Presbyterian Medical Center. Preparatory work should comprise work in chemistry or biology, psychology, and sociology. Acceptance of a candidate is based on grounds of character and health as well as on fulfillment of the academic requirements. The minimum requirement for admission is two years (60 points) of college work. The course for students who hold a Bachelor's degree is two years in length.

OCCUPATIONAL THERAPY

The Faculty of Medicine offers a program of professional study in Occupational Therapy leading to a Bachelor of Science degree. The candidate for admission must offer two years (60 semester hours) of acceptable college work, including a minimum of 6 semester hours in biology (including zoology), chemistry or physics; 6 semester hours in psychology, and 3 semester hours in sociology. The course of study is of twenty-five months' duration, including two academic years and nine months of clinical experience.

A graduate program of seventeen months is offered for students already possessing a Bachelor of Arts or Science degree. The applicant must meet specific prerequisites of 6 semester hours in biology (including zoology), chemistry or physics; 6 semester hours in psychology and 3 semester hours in sociology. On satisfactory completion of the program of one academic year and nine months of clinical experience, the Faculty of Medicine awards a Certificate.

Acceptance of a student for admission to either program is based on evidence of personal capabilities, a good record of physical health, and emotional stability.

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Additional information and guidance may be obtained from the Office of Occupational and Physical Therapy, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N. Y.

PHYSICAL THERAPY

The Faculty of Medicine offers a program of professional study in Physical Therapy which leads to the Bachelor of Science degree. The candidate for admission must offer two years (60 points) of acceptable college work, including 6 points in biological science, 6 points in physics, and 6 points in psychology. Requirements for admission to the licensure examination for physical therapists in the State of New York include 6 semester credits in biology, 6 in chemistry, and 6 in physics. Students who plan to practise in New York State should accordingly fulfill the remainder of these requirements.

The course of professional study covers twenty-one calendar months, including two academic years of didactic instruction and clinical practice, and a two-month clerkship following the junior year of study.

A graduate program of one calendar year is offered for students already possessing a Bachelor of Arts or Bachelor of Science degree, who have completed the following points in science: 8 semester credits in biological science; 6 semester credits in physics; 10 semester credits in social science (of which 6 must be in psychology). The Faculty of Medicine awards a Certificate upon satisfactory completion of this course.

Acceptance of a student for admission to either program is based on evidence of personal capability, and on health and character as well as on the fulfillment of academic requirements.

Information and guidance regarding courses may be obtained from the Office of Physical and Occupational Therapy, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N. Y.

PROGRAM IN THE ARTS

The Program in the Arts offers to graduates with a Bachelor's degree from Columbia University, or from another institution of acceptable standing, a course of study in a minimum of one year, leading to the degree of Master of Art History (in painting, sculpture, film, radio and television).

A bulletin describing these courses is available at the Office of University Admissions.

PUBLIC HEALTH AND ADMINISTRATIVE MEDICINE

The Faculty of Medicine offers a program of professional study at the

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School of Public Health and Administrative Medicine leading to the Master of Science degree in Hospital Administration, Administrative Medicine, Biostatistics, Nutrition, and Parasitology. A Bachelor's degree from an approved college and evidence of satisfactory scientific training are necessary for admission. All candidates must spend at least one academic year at the school. An administrative residency of one calendar year's duration is required of all hospital administration students, and candidates for the degree in administrative medicine.

SOCIAL WORK

The New York School of Social Work of Columbia University offers a two-year course of study leading to the degree of Master of Science. The School is an accredited member of the Council on Social Work Education. The curriculum includes a sequence of courses, supervised field work in social work agencies, and research to prepare students for professional practice in social work.

A Bachelor's degree is required for admission. The undergraduate program of study must include a minimum of 60 points in strictly liberal arts studies and not less than 20 points in the social and biological sciences, with the emphasis in the direction of the social sciences.

An advanced curriculum leading to the degree of Doctor of Social Welfare is offered to graduates of schools of social work.

The School has a limited enrollment and admission is on a selective basis. The General Announcement, giving information about the curriculum and dates for filing application, may be obtained from the Dean of the School, 2 East 91st Street, New York 28, N. Y.

TEACHERS COLLEGE

Teachers College, Columbia University, offers college graduates a one-year course of study leading to the Master's degree and to teacher certification in any one of these teaching fields: nursery education, kindergarten, elementary education, biology, business subjects, chemistry, English, fine arts, foreign languages, geography, health education, history, mathematics, music, physical education, physics, recreation, science, social studies, speech, and special programs for work with the blind, hard of hearing, deaf, mentally retarded, and physically handicapped.

This fifth year at Teachers College provides for practical experience and classroom instruction. For guidance on planning programs for teacher preparation—see Dean Bailey, 117 Milbank Hall, and Professor Lange, 311 Dodge Hall, Teachers College.

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UNION THEOLOGICAL SEMINARY

Union Theological Seminary offers courses of study leading to the degrees of Bachelor of Divinity, Master of Religious Education, Master of Arts in the fields of Christian Education, Biblical Literature, and Comparative Religions, and Master of Sacred Music.

Since accommodations at the Seminary are limited, it is necessary to select from the total number of applicants for admission those who seem best qualified, and who in the light of their expressed purpose, personality, and record of scholarship give especial promise of usefulness in some form of Christian ministry. The requirement for admission is a Bachelor's degree, including special work as indicated below:

- a. Bachelor of Divinity. The preparatory work for this three-year course should include the study of philosophy, especially the history of philosophy, and courses in history, literature, economics, psychology, and at least one modern language, either French or German. A knowledge of Greek is desirable.
- b. Master of Arts in the fields of Christian Education, Biblical Literature, and Comparative Religions. Preparatory work for these courses should include: (1) in Christian Education, some knowledge of the Bible, of the philosophy and ethics of the Christian religion, and of either the psychology of personality or the principles of education; (2) in Biblical Literature, a working knowledge of Hebrew and Greek sufficient to proceed at once to exegesis based on the original languages of the Bible; (3) in Comparative Religions, a general knowledge of the history of religions and a working knowledge of such language as may be necessary for study in the candidate's field of special interest. Students with satisfactory preparation in these subjects may complete the work for the Master of Arts degree in one year.
- c. Master of Religious Education. Preparatory work for this course should be the same as that for the Master of Arts in Christian Education as indicated above.
- d. Master of Sacred Music. Candidates for this degree must give evidence of the completion of an amount of work in music sufficient to enable them to enter with profit upon the courses in sacred music.

The Seminary also participates in joint programs leading to the degrees of Master of Arts and Doctor of Philosophy in the field of religion at Columbia University.

IX. Fees

Barnard does not charge its students the full cost of their instruction, since its Trustees believe that admission to college should be based on intellectual ability and promise, rather than financial resources. Student payments meet only two-thirds of the total educational expense; the balance must be obtained each year from investment income and from gifts of the Associate Alumnae and other friends of the College. By continuous efforts to increase annual gifts and endowment, and by economy of operation, the College keeps charges as low as possible without sacrificing the quality of its instruction.

SUMMARY OF FEES

I.	Full-time non-resident students	Each Term	Academic Year
	A. Tuition and fees ¹	\$ 675.00	\$1,350.00
	Undergraduate Association Activity Fee	7.75	15.50
	Total	\$ 682.75	\$1,365.50
	B. Optional fee to participate in Columbia University Student Medical Plan ²	10.00	20.00
	Total	\$ 692.75	\$1,385.50
II.	Full-time resident students		
	Tuition and fees ¹	\$ 675.00	\$1,350.00
	Undergraduate Association Activity Fee	7.75	15.50
	Residence fees ³	450.00	900.00
	Total	\$1,132.75	\$2,265.50
III.	Other students		
	Matriculated students taking less than a full schedule (11 points or less) and all non-matriculated students are required to pay the registration and medical fees each term, as well as \$55 per point for all academic work and \$5 for physical education, if this is required.		

¹ Includes registration and medical office fees.

² This additional fee is required for all non-resident students not living with parents or relatives and for students participating in the Medical Health Insurance Plan.

³ Includes room, board, laundry and required participation in Columbia University Student Medical Plan. Board is available to non-resident students at the annual rate of \$450.

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All matriculated students are also required to pay the Undergraduate Association activity fee.

Students registering in absentia for one term or for one year are required to pay a registration fee of \$15.

IV. Deposits

All students: In order to obtain a place on the college roll for the ensuing autumn or spring term, students who are currently enrolled must pay a deposit of \$50 on or before May 15 and December 1 respectively. Applicants for admission or readmission must make this advance payment at the time they signify their acceptance of admission or readmission to the College. The deposit of \$50 will be applied to the charges of the autumn or spring term, as the case may be. The entire deposit is forfeited in case of a student's failure to enter, or of her withdrawal.

Resident students: A room deposit of \$50 is payable by May 15 to secure the assignment of a room for the following academic year. One-half of this deposit (\$25) will be applied to the charges of the autumn term and the remainder to the charges of the spring term. The entire deposit is forfeited in case of withdrawal.

Deposits for the use of apparatus and material required in:

Chemistry 41, 42, 57, 64, 78, 87, 88, each course \$15

V. Payment of Charges and Fees

All charges and fees are payable semiannually in advance. No reduction is made for late registration. Registration is not complete until all charges and fees are paid. Failure to complete registration (including the payment of all charges and fees) on time imposes automatically the statutory charge of \$15 for late registration.

Payment of charges and fees (accompanied by the stub of the bill) must be made by September 15 for the autumn term and by January 15 for the spring term. If payments are mailed, envelopes must be postmarked not later than September 15 or January 15 respectively. Students admitted for the autumn term after September 10 must pay their bills not later than September 27.

The privileges of the College are not available to any student who is delinquent in the payment of her charges or fees.

All charges and fees are subject to change at any time at the discretion of the Trustees.

Checks or money orders in payment of all charges and fees must be in U. S. currency, payable to Barnard College. Checks or money orders should be made out for the exact amount of the payment due. No check which is made out for more than the correct amount will be accepted.

Every financial obligation to the College must be met by January 1 of the autumn term or by May 1 of the spring term, if the student is to be permitted to take her examinations and receive credit for the term's work.

(The application fee of \$15, payable when application for admission is filed, is not credited on the bill and is never refunded).

Note: NEW YORK STATE SCHOLARS at the time of registration must file with the Bursar notice of their official award, received from Albany.

VI. Deferred Payment

In special cases, upon payment of a nominal fee, permission may be obtained from the Bursar to defer the payment of approximately one-half of the total bill for the term until November 15 or March 15, provided that such permission is granted before August 15 (for the autumn term) or December 15 (for the spring term).

Any application for the privilege of deferred payment made after August 15 or December 15 will be subject to a late payment fee of \$5.

Where the privilege of deferred payment has been granted, each payment must be made on the due date or an additional fee of \$5 for late payment will be incurred. In case of withdrawal the entire bill for charges and fees will become due immediately.

VII. Refunds

As contracts with instructors and provisions for education and residence are made by the College for the entire year, no refunds of the charges and fees can be made after they become due, except in cases of extreme emergency, of which the College shall be the sole judge. Refunds for the board portion of the charges may be made at the discretion of the College and will be computed on a pro-rata basis from the date of withdrawal to the end of the term. Application for the refund must be made in writing at the time of withdrawal to the Director of Residence Halls. The \$50 deposit paid on tuition and one-half (\$25) of the room deposit required for residence are excluded from any refund.

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No refunds for board will be made for students who wish to take meals off-campus. Barnard is non-denominational and no provision can be made for special diets.

VIII. Additional Charges

Freshman orientation: Room and board fee	\$10.00
Language laboratory work is required for certain courses, but all students have the privilege of using the laboratory. The fee for its use for the year is	5.00
Tuition for courses in applied music: See departmental announcement of courses, page 117.	
Tuition for technical courses in art history: See announcement of the School of General Studies for special fees.	
Deficiency and special examinations, payable in each case before the examination is held:	
For each deficiency examination	5.00
For each special examination	10.00
(A special or deficiency examination is one taken at any time other than the conclusion of a course.)	
Late registration for academic work (see page 33)	15.00
Late filing of:	
Tentative program cards	10.00
Major blanks	10.00
Application for deficiency examinations	5.00
Application for foreign language test	5.00

IX. Other Expenses

There are other miscellaneous expenses not payable to the College for which the student should plan. These include: a gymnasium costume, approximately \$17; Student Government dues of \$2 for resident students; and a minimum of \$50 per year for textbooks. Non-resident students should estimate a minimum of \$100 (\$3 weekly) for lunches, if they plan to buy them in the cafeteria or snack bar. Individual estimates of expense should also include: minimum allowances for transportation for non-resident students, or two round-trip coach fares from home to college for resident students; clothes (\$150); incidentals (\$150-\$200).

X. Medical Plan

Campus medical service is available to all students and is covered by the comprehensive charge payable each term. Medical examinations are required for freshmen, sophomores, and seniors. (Students will not be allowed to register for the succeeding term until they have had the required medical examination. The final date for completion of the examination by the College Physician is December 15 for seniors; for freshmen and sophomores May 15.)

Resident students, non-resident students not living with family or relatives, and students who subscribe to the Medical Health Insurance policy (see XI.) are required to pay an additional medical fee of \$10 each term. This allows them to participate in the Columbia University Student Medical Plan during the academic year. Non-resident students living at home may also participate in this plan by paying the additional \$10 fee each term. The CUSMP entitles the student to the following services:

A. Barnard College Medical Office: Medical treatment for conditions not requiring bed care; admittance to the Columbia University Infirmary.

B. Columbia University Medical Office: Consultation with specialists; surgical treatment of minor surgical conditions; laboratory and X-ray studies as deemed advisable. All students must be referred by the Barnard College Physician.

Not provided: Dental care; fitting and provision of glasses; house calls.

C. Columbia University Infirmary: Bed care for ten days a term will be provided without charge.

D. St. Luke's Hospital: For more acute surgical and medical conditions requiring hospitalization, four days' ward care at St. Luke's Hospital will be available each term. In practically all situations when additional bed care is needed, it can be spent in convalescence in the infirmary.

XI. Medical Health Insurance

Students who pay the additional medical fee are eligible to purchase a special student commercial policy which provides basic accident benefits in or out of the hospital, basic hospital benefits and doctor's visits. In addition, a major medical expense benefit up to \$5,000 is provided for medical expenses incurred either at home, in the hospital, or in the doctor's office, if resulting from either an accident or an illness. Benefits apply on or off the

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campus, 24 hours a day, on a calendar year basis, including vacation periods, from September 1 to August 31.

The cost of this insurance is \$20.50 per year (from September 1) or \$12.80 for period February 1-September 1. See the Bursar's Office for further details.

XII. Insurance for Foreign Students

Foreign students who are not residing in the United States with members of their families are required to participate in the Columbia University Student Medical Plan and the Medical Health Insurance policy described above. The fee of \$10 each term for the former (CUSMP) will be included in the bill of all students living in the Barnard residence halls. The Medical Health Insurance fee of \$20.50 a calendar year is payable to the Indemnity Insurance Company of North America. Full information concerning this policy will be mailed to the student with her college bill.

XIII. Hospital Insurance

All students are eligible for membership in the Associated Hospital-United Medical Service for twelve consecutive months beginning October 1 at a cost of \$53.28. See the Bursar's Office for complete details.

XIV. Safekeeping of Students' Funds

Barnard College is not prepared to receive funds from students for safekeeping nor to cash personal checks or travelers checks.

To cover their immediate expenses, students should provide themselves with travelers checks, which can be cashed at a local bank, or money orders, which the Columbia University Station of the U. S. Post Office will cash upon presentation of the bursar's receipt. A bursar's receipt is issued when a student registers at the beginning of each term.

It is also possible to open a checking, special checking, or savings account at one of the local banks:

Chemical Bank New York Trust Company
Broadway and 113th Street, New York 25, N. Y.

First National City Bank of New York
Broadway and 111th Street, New York 25, N. Y.

American-Irving Savings Bank
Broadway and 111th Street, New York 25, N. Y.

X. Financial Aid

The College desires that no qualified student be excluded from Barnard because her family has only moderate means.

In effect, every student at Barnard receives some financial aid from past donors, since the College fees do not cover the entire cost of her education today. The balance is made up by endowment income and gifts. In addition to grants and loan funds, which are never sufficient to meet all demands, opportunities for self-help (see Placement Office, page 41) are provided to open Barnard's doors to girls of superior talent from all sections of the country, without regard to their ability to pay. Students are urged to investigate state aid programs and college tuition financing plans offered by local banks and insurance companies.

ANNUAL AWARDS

Grants and loans are awarded annually by the Committee on Financial Aid to full-time students of high scholarly ability, excellent character, and promise of future accomplishment. The amount of the award depends on the student's financial need and is determined from the following:

1. The amount of the parents' contribution as estimated from information given on the College Scholarship Service forms.
2. The amount available from other sources, including New York State Regents' Scholarships.
3. The student's savings distributed over a four-year period.
4. The student's summer earnings (at least \$200 for freshmen and \$300 for sophomores, juniors and seniors).
5. After the freshman year, the student's earnings from part-time work during the academic year (\$200).

The basic budget used to compute financial need includes, in addition to the college fees, allowances for other expenses as described on page 162.

Awards are for one year only. If the student makes a good record, she is eligible to apply for further assistance in subsequent years.

Applications for financial aid for entering students may be obtained from the Admissions Office and should be returned to that office on or before February 15. The student applies in terms of financial need, not for any one of the specific scholarships listed in the following pages.

Entering students who are applying for aid must also file a financial statement with the College Scholarship Service, Box 176, Princeton,

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New Jersey, or Box 27986, Los Angeles 27, California, not later than February 15 of the senior year in high school. Forms may be obtained from the school or they will be sent by the College Scholarship Service on request. The Service acts as a central filing and distributing agent. Photographic copies of the completed statement will be sent to the colleges named by the applicant.

Each applicant must complete and file both forms as instructed above in order to be considered for financial aid. Applicants are notified of awards at the time they receive their notice of admission to the college.

If an entering student applies to more than one college in the Seven College Conference (Barnard, Bryn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar and Wellesley), her application is reviewed by the appropriate members of the Conference in order that awards may be made on a non-competitive basis. Amounts vary only according to the difference in fees and, whenever possible, are equivalent in value.

STUDENTS IN COLLEGE: Students in college who are in need of financial aid and are academically qualified must file applications on special forms obtainable in the office of the Dean of Studies. Applications must be filed on or before February 5, 1962.

Applicants will be notified as soon as awards are made. Recipients are requested to inform the Dean of Studies immediately, in writing, if because of change of plans, they do not intend to use the funds awarded.

LOAN FUNDS

The Associate Alumnae of Barnard College maintain a Student Loan Fund from which loans to seniors are made. In 1950, through a gift of \$26,000 from Mr. and Mrs. Gerard Swope and Miss Henrietta Swope, an additional fund known as the Swope Loan Fund was established. These two funds are administered by the Faculty Committee on Financial Aid. No interest is charged while the student is in college. Payments on principal may be made at any time before graduation. Loans are scheduled to be repaid in equal quarterly installments over a three-year period, beginning six months after graduation. Interest is charged at the rate of 1% per annum, the total amount for the three years being payable with the first quarterly installment.

In the spring of 1960, the Barnard College Loan Fund was established by the Board of Trustees to help meet the increased need of students. Loans from this fund are regularly assigned to upperclassmen as part of their financial aid award; the maximum loan per year is \$500. No interest is charged while the student is in college. Payments on principal may be made at any time before graduation. Principal of indebtedness

totalling \$300 or more is repaid in semi-annual installments of \$150 each. Interest is charged from the first day of the month after graduation at the rate of 3% per annum.

A list of scholarship funds established by gifts or endowment follows. The income from such funds, both unrestricted and restricted, and from the funds for grants-in-aid is available each year.

SCHOLARSHIP FUNDS—UNRESTRICTED¹

ALUMNAE SCHOLARSHIP FUND (1922). A tenth reunion gift by the Class of 1912, subsequently supplemented by legacy from the estate of Julia Ludlow Young and by gifts of other alumnae. Approximately \$14,900.

ANNA E. BARNARD SCHOLARSHIP FUND (1899). In honor of Mrs. John G. Barnard by Emily H. Bourne. \$3,000.

RUTH MARSHALL BILLIKOPF SCHOLARSHIP FUND (1950). In honor of Ruth Marshall Billikopf '19. \$5,000.

VARIAN WHITE BLUMBERG SCHOLARSHIP FUND (1952). From the estate of Varian White Blumberg '13. \$5,000.

CHARLES E. BOGERT MEMORIAL SCHOLARSHIP AND ANNA SHIPPEN YOUNG BOGERT MEMORIAL SCHOLARSHIP FUND (1913). By bequest of Annie P. Burgess. \$10,000.

EVA-LENA MILLER BOOTH SCHOLARSHIP FUND (1932). In memory of Mrs. Eva-Lena Miller Booth, by the New York City Chapter of the Daughters of the American Revolution. \$1,000.

BREARLEY SCHOOL SCHOLARSHIP FUND (1899). By pupils and former pupils of the Brearley School. \$3,000.

MARTHA ORNSTEIN BRENNER SCHOLARSHIP FUND (1915). In memory of Martha Ornstein Brenner '99, by her friends. \$4,000.

ARTHUR BROOKS FUND (1897). By Olivia E. Phelps Stokes as a memorial to the Reverend Arthur Brooks, D.D., Rector of the Church of the Incarnation and Chairman of the Board of Trustees of Barnard College during the first six years of its existence. \$5,000.

THOMAS F. CLARK STUDENTS' LOAN FUND (1928). By bequest of Mrs. Fanny Foster Clark. \$100,000.

JENNIE B. CLARKSON SCHOLARSHIP FUND (1898). By Mrs. W. R. Clarkson. \$3,000.

CLASS OF 1921 SCHOLARSHIP FUND (1931). A tenth reunion gift by the Class of 1921. \$2,500.

CLASS OF 1954 SCHOLARSHIP FUND (1955). Towards their fifth reunion in June, 1959 by the Class of 1954. \$4,584.

ADA M. DONELLE SCHOLARSHIP FUND (1948). By bequest of Mrs. Ada M. Donelle. \$121,751.

¹ Figures compiled as of January 1, 1961.

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FISKE SCHOLARSHIP FUND (1895). By Mrs. Martha T. Fiske-Collord. \$5,000.

GALWAY FUND (1912). By an anonymous donor. \$2,400.

IRMA ALEXANDER GOLDFRANK FUND (1919). In memory of Irma Alexander Goldfrank '08, by her friends. \$2,105.

GRAHAM SCHOOL SCHOLARSHIP FUND (1907). By the Graham Alumnae Association. \$7,300.

LOUISE H. GREGORY SCHOLARSHIP FUND (1955). From gifts in memory of Louise H. Gregory. \$4,397.

HARKNESS SCHOLARSHIP FUND (1939). With a gift from Edward S. Harkness. \$100,000.

CHARLES EVANS HUGHES SCHOLARSHIP FUND (1952). By bequest of Charles Evans Hughes. \$14,300.

LILY MURRAY JONES SCHOLARSHIP FUND (1950). In memory of Lily Murray Jones '05, Alumnae Trustee from 1939 to 1943, by Murray, Alfred, and Wallace Jones. \$25,146.

AUGUSTA LARNED SCHOLARSHIP FUND (1924). By bequest of Augusta Larned. \$10,000.

JOAN SPERLING LEWINSON SCHOLARSHIP FUND (1955). With a gift from Joan Sperling Lewinson '13. \$11,638.

JUDITH LEWITTES SCHOLARSHIP FUND (1957). In memory of Judith Lewittes '55, by her family and friends. \$4,471.

AMY LOVEMAN SCHOLARSHIP. See Undergraduate prizes, page 176.

LOUISE GRACE LUBY AND JAMES LUBY SCHOLARSHIP FUND (1947). From the estate of Grace Farrant Luby '93. \$5,000.

MEMORIAL SCHOLARSHIP FUND (1954). To receive contributions in memory of deceased alumnae and friends. \$16,726.

WILLIAM MOIR SCHOLARSHIP FUND (1912). In memory of William Moir by his wife. \$10,000.

CAROLINE CHURCH MURRAY FUND (1918). In memory of his wife, Caroline Church Murray, by George Welwood Murray. \$5,000.

ANNETTE FLORANCE NATHAN SCHOLARSHIP FUND (1947). From the estate of Frederick Nathan. \$3,000.

LUCRETIA PERRY OSBORN SCHOLARSHIP FUND (1940). In memory of Lucretia Perry Osborn, a Trustee of Barnard College from 1893 to 1930, by her family and friends. \$5,000.

PETER C. RITCHIE, JR. SCHOLARSHIP FUND (1937). By bequest of Virginia J. Ritchie. \$4,400.

EDITH LOWENSTEIN ROSSBACH MEMORIAL SCHOLARSHIP FUND (1950). In memory of Edith Lowenstein Rossbach '19, by her family, friends, and classmates. \$18,860.

EDNA HELLER SACHS SCHOLARSHIP FUND (1955). With a gift from Edna Heller Sachs '10. \$10,000.

FINANCIAL AID

ELEANOR BUTLER SANDERS SCHOLARSHIP FUND (1922). By bequest of Henry M. Sanders. \$10,000.

ANNA M. SANDHAM SCHOLARSHIP FUND (1922). By bequest of Anna M. Sandham to Columbia University. \$10,000.

SCHMITT-KANEFENT SCHOLARSHIP FUND (1931). By bequest of Catherine Schmitt. \$7,000.

SCHOLARSHIP FUND (1901). By general subscription through the Scholarship Committee of the Board of Trustees. Approximately \$12,000.

EMILY JAMES SMITH SCHOLARSHIP FUND (1899). In honor of Miss Smith, Dean of Barnard College from 1894 to 1900, by Emily H. Bourne. \$3,000.

GEORGE W. SMITH SCHOLARSHIP FUND (1906). In memory of George W. Smith, a Trustee of Barnard College, by Mrs. Martha T. Fiske-Collord. \$5,000.

EDNA PHILLIPS STERN SCHOLARSHIP FUND (1952). In memory of Edna Phillips Stern '09, by her family and friends. \$20,797.

ISABEL GREENBAUM STONE SCHOLARSHIP FUND (1957). In memory of Isabel Greenbaum Stone '18, by her family. Recipients of these scholarships are urged to repay the amounts they receive as soon as they are in a position to do so. \$7,215.

OLON E. SUMMERFIELD FOUNDATION SCHOLARSHIP FUND (1960). A gift from the Solon E. Summerfield Foundation. \$1,000.

VELTIN SCHOOL SCHOLARSHIP FUND (1905). By the alumnae of Mlle. Veltin's School. \$3,000.

ALMA F. WALLACH SCHOLARSHIP FUND (1951). In memory of Alma F. Wallach from the estate of Richard L. Leo. \$1,000.

ELLA WEED SCHOLARSHIP FUND (1895). In memory of Ella Weed, Chairman of the Academic Committee of the Board of Trustees of Barnard College during the first five years of its existence, by pupils and alumnae of Miss Anne Brown's School. Approximately \$8,600.

HYMEN WERNER SCHOLARSHIP FUND (1953). In memory of her husband, Hymen Werner, by Helen Frankfield Werner '06. \$4,500.

SCHOLARSHIP FUNDS—RESTRICTED¹

MARY GERTRUDE EDSON ALDRICH SCHOLARSHIP FUND (1916). By Mrs. James Herman Aldrich to assist in her senior year, a student who has shown in her college life the moral qualities which go to the making of fine womanhood. \$1,000.

ASSOCIATE ALUMNAE LOAN FUND SCHOLARSHIP (1955). By the Associate Alumnae of Barnard College for one or more seniors. \$28,000.

BARNARD COLLEGE CLUB OF NEW YORK SCHOLARSHIP FUND (1952). For a Barnard student whose home is outside the area of the City of New York. Approximately \$23,100.

¹ Figures compiled as of January 1, 1961.

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BARNARD SCHOOL ALUMNAE SCHOLARSHIP FUND (1916). By the alumnae of the Barnard School for Girls. Awarded to a student in any class, preference being given to nominees of the school. \$4,000.

WILLINA BARRICK MEMORIAL SCHOLARSHIP FUND (1936). In memory of Willina Barrick '00, by the College Club of Jersey City. Awarded on the nomination of the Club to a graduate of a Jersey City secondary school. \$10,634.

IRVING BERLIN SCHOLARSHIP FUND (1950). By Irving Berlin. Awarded annually to one or more girls of foreign-born parentage. \$23,500.

IDA BLAIR MEMORIAL FUND (1937). In memory of Ida Blair by the Women's Democratic Union. To be used for the purchase of books for a student, preferably one studying political science. \$700.

ALICE MARIE-LOUISE BRETT SCHOLARSHIP FUND (1930). In memory of his daughter, Alice Marie-Louise Brett '15, by bequest of Philip E. Brett. Awarded during her senior year to a student specializing in French. \$10,000.

BROOKLYN SCHOLARSHIPS (1895). By the Trustees of Columbia University in recognition of the gift to Columbia University by President Seth Low of a memorial building for the University Library. Open to students residing in Brooklyn and prepared in a Brooklyn school. Twelve at \$150 each.

ANNE BROWN ENDOWMENT SCHOLARSHIP FUND (1939). In memory of Anne Brown, by the Anne Brown Alumnae Association, for young women of the City of New York. Approximately \$31,339.

CARPENTIER RESIDENCE SCHOLARSHIP FUND (1919). By bequest of Horace W. Carpentier. Awarded annually to students who are not residents of New York City or its vicinity. \$200,000.

ELIZA TAYLOR CHISHOLM MEMORIAL SCHOLARSHIP FUND (1901). By the Alumnae Association of Miss Chisholm's School, which Association reserves the privilege of precedence for such candidates as it may recommend. \$3,000.

MRS. HENRY CLARKE COE SCHOLARSHIP FUND (1910). By the National Society of New England Women, now the New York City Colony of the National Society. Awarded, on nomination of the chairman of the Scholarship Committee of the New York City Colony, to a student from New England or of New England parentage. After the award is made the Society requires from the beneficiary full obedience to discipline and the highest ideals of scholarship. This may be awarded to an entering freshman. \$3,600.

CLASS OF 1919 DECENNIAL FUND (1929). A tenth reunion gift by the Class of 1919, for a resident student. \$5,000.

AUGUSTA SALIK DUBLIN SCHOLARSHIP FUND (1960). In memory of Augusta Salik Dublin '06, by her family and friends. Awarded at the discretion of the Committee on Financial Aid to a Barnard student, to enable her to continue her education in preparation for leadership in a field of social welfare, such as social work, social legislation, housing and city planning, or a related area. Available either to a student for undergraduate study or to a graduating student for graduate work, for one or more years. \$7,113.

FINANCIAL AID

ENGLISH SCHOLARSHIP FUND (1920). By an anonymous donor. Awarded to a student of good standing who is specializing in English and is in need of help; with the proviso that, if in any year there is no student specializing in English who is particularly deserving of aid, the scholarship may be used to assist a student majoring in some other subject. \$5,000.

GLADYS RENSHAW ESTERBROOK SCHOLARSHIP FUND (1958). In memory of her daughter, Gladys Renshaw Esterbrook '20, by bequest of Minnie R. Esterbrook. Preference is given to applicants majoring in English or French. \$5,000.

MARTHA T. FISKE SCHOLARSHIP FUND (1911). In memory of her sister, Mrs. Martha T. Fiske-Collord, by Anna E. Smith. Awarded to an applicant not a resident of New York City or its suburbs. \$5,000.

FOOD FAIR SCHOLARSHIP (1954). By the Food Fair Stores Foundation for employees and sons and daughters of employees of Food Fair Stores.

HELEN JENKINS GEER SCHOLARSHIP FUND (1940). In memory of her mother, Helen Jenkins Geer '15, by Helen Hartley Geer '40. Awarded annually, after conference with the donor. \$5,000.

VIRGINIA GILDERSLEEVE INTERNATIONAL SCHOLARSHIP FUND (1937). In honor of the international work of Dean Emeritus Gildersleeve, by Charles R. Crane. Awarded annually to a foreign student coming to Barnard to study. \$15,100.

EMMA HERTZOG SCHOLARSHIP FUND (1904). With gifts from residents of Yonkers, New York. Awarded, in conference with the faculty of the Yonkers High School, to a graduate of that school. \$3,000.

MARION ALICE HOEY FUND (1944). In memory of Marion Alice Hoey '14, by Nellie Poorman. Preference is given to applicants studying Greek and Latin. \$2,000.

LILLIA BABBITT HYDE SCHOLARSHIP FUND (1953). By the Lillia Babbitt Hyde Foundation. Awarded to pre-medical students. \$25,000.

CHARLOTTE LOUISE JACKSON SCHOLARSHIP FUND (1928). In memory of Charlotte Louise Jackson, by bequest of her sister, Fannie A. Jackson. Awarded to a graduate of a Yonkers high school selected by or under the direction of the Board of Education of Yonkers. \$5,000.

JOINT INDUSTRY BOARD OF THE ELECTRICAL INDUSTRY SCHOLARSHIPS (1951). By the major electrical contracting firms of New York City for sons and daughters of members of Local Union No. 3 of the International Brotherhood of Electrical Workers. Variable in number.

MARY E. LARKIN JOLINE SCHOLARSHIP FUND (1927). By bequest of Mary E. Larkin Joline. Awarded to a student who is specializing in music. \$10,000.

WERNER JOSTEN SCHOLARSHIP FUND (1955). With a gift from Mrs. Werner Josten. Preference is given to a student majoring in music, but if in any year no such student is eligible, the scholarship may be awarded to a student majoring in some other field. \$23,204.

JESSIE KAUFMANN SCHOLARSHIP FUND (1902). In memory of his daughter, Jessie Kaufmann, by Julius Kaufmann. Awarded on the merits of entrance examinations to a student who, after careful investigation, is found to have no relative able to assist her financially. It may be held for the entire college course. \$4,000.

BARNARD COLLEGE

ELEANOR KINNICUTT SCHOLARSHIP FUND (1911). In memory of Mrs. Francis P. Kinnicutt, a Trustee of Barnard College. Awarded at the end of the freshman year to a student of exceptionally high standing. It may be held for three years, provided the recipient continues to maintain a high rank. \$5,000.

CAROLINA MARCIAL-DORADO SCHOLARSHIP FUND (1953). In memory of Professor Carolina Marcial-Dorado, for many years head of the Barnard College Department of Spanish. Awarded to a student from Spain. If at any time there is no applicant from Spain eligible for the grant, it may at the discretion of the Department be awarded to a student who is majoring in Spanish. \$12,400.

EUGENE F. AND MINNIE COUGER MC GOWAN SCHOLARSHIP FUND (1955). By an anonymous donor. Preference is given to candidates from Mecklenburg County, North Carolina. If in any year no such candidate is eligible, the scholarship may be awarded to a student or students from other areas. \$10,000.

MRS. DONALD MCLEAN SCHOLARSHIP FUND (1906). By the New York City Chapter of the Daughters of the American Revolution. Awarded, in conference with a representative of the Chapter, to a student who agrees to pursue the study of history (chiefly that of the United States) continuously throughout her college course. \$3,000.

FERRY STARR MORGAN SCHOLARSHIP FUND (1959). In memory of her father, by bequest of Grace B. Morgan '19. Awarded to a student who is majoring in music or philosophy. \$10,000.

MARY BARSTOW POPE SCHOLARSHIP FUND (1913). In memory of Mary Barstow Pope, teacher in Miss Chapin's School, by her friends, her fellow-teachers, and her pupils. Open to any undergraduate for the whole or any part of her course, and awarded on the nomination of a self-perpetuating committee representing the founders. \$4,000.

PUBLIC SERVICE SCHOLARSHIP FUND (1934). By the Women's Organization for National Prohibition Reform. Awarded to young women of exceptional ability, interested in following a career of public service in the field of political science, who show special promise of future usefulness in the public service. Awarded at the discretion of the Faculty of Barnard College to one or two students in their junior or senior years. In the case of a particularly promising student the Faculty may, at its discretion, extend the award to cover one, two, or three additional years of graduate study at an approved college or university in order to encourage young women of exceptional ability to complete a course of study which will fit them for service in public life. \$30,000.

LUCILLE PULITZER SCHOLARSHIP FUND (1899). In memory of his daughter, Lucille Pulitzer, by Joseph Pulitzer. Three are restricted to students from the City of New York; eight are for resident students. \$176,450.

AMELIA AGOSTINI DE DEL RÍO SCHOLARSHIP FUND (1955). In honor of Amelia de del Río, Chairman of the Barnard College Department of Spanish. Awarded to a student from Mrs. de del Río's native island of Puerto Rico. If at any time there is no applicant from Puerto Rico eligible for the grant, it may, at the discretion of the Department, be awarded to a student who is majoring in Spanish. \$17,100.

FELIX ST. GEORGE SCHOLARSHIP (1955). In memory of her father, Felix St. George, by bequest of Ida St. George. Awarded to an incoming freshman whose

subject of interest is a science or pre-medical course, more particularly physics, chemistry, or biology. \$7,450.

SEVEN COLLEGE SCHOLARSHIPS (1943). The Seven College Conference (Barnard, Bryn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar and Wellesley) gives twenty-one scholarships each year to entering freshmen. Each college offers a scholarship to a student living in one of the following areas: Central (Colorado, Kansas, Missouri, Nebraska); Southwest (Arizona, Arkansas, Louisiana, New Mexico, Oklahoma, Texas); West (California, Idaho, Oregon, Washington). Amounts range from honorary awards which carry no stipend up to the full cost of tuition, room and board.

FRED CURTIS SMITH MEMORIAL SCHOLARSHIP FUND (1955). In memory of Fred Curtis Smith, at the time of his death Vice President and Mortgage Officer of the Bowery Savings Bank. \$51,000.

EMMA A. TILLOTSON SCHOLARSHIP FUND (1910). By Mrs. Luther G. Tillotson. Awarded at the end of the freshman year to a student of exceptionally high standing. It may be held for three years, provided the recipient continues to maintain a high rank. \$5,000.

CLARA BUTTENWIESER UNGER MEMORIAL FUND (1938). In memory of his daughter, Clara Bittenwieser Unger '13, by Joseph L. Bittenwieser. Awarded annually to assist through her senior year a student whose subject of major interest is government, and who shows promise of ability to contribute to the promotion and perpetuation of true democracy under our Constitution. \$2,500.

HELEN ELIZABETH VOSBURGH SCHOLARSHIP FUND (1934). In memory of Helen Elizabeth Vosburgh '25, by bequest of Katherine G. Lippke. Preference is given to a self-supporting student. \$5,000.

CERTIE EMILY GORMAN WEBB SCHOLARSHIP FUND (1953). By Charles Webb. Awarded to a student nominated by the Department of History. \$5,000.

ALMA GLUCK ZIMBALIST SCHOLARSHIP FUND (1940). By bequest of Alma Gluck Zimbalist. Awarded annually to a student who wishes to major in political science. \$10,000.

SCHOLARSHIPS—ESTABLISHED ON A TEMPORARY BASIS

BARNARD-IN-BROOKLYN CLUB SCHOLARSHIP (1944). A tuition scholarship, with variable stipend. Awarded annually to a student from Brooklyn.

THE BARNARD COLLEGE CLUB OF DETROIT SCHOLARSHIP (1958). A tuition scholarship with variable stipend. Awarded annually, with preference given to a new student from Metropolitan Detroit.

HOLLAND DAMES SCHOLARSHIP (1915). In honor of Fanny I. Helmuth, by the Daughters of Holland Dames. Awarded in conference with a representative of the Society to a student descended from the early Dutch settlers.

THRIFT SHOP SCHOLARSHIPS (1938). Awarded annually from the proceeds of the Barnard Scholarship Unit of Everybody's Thrift Shop, 1139 Second Avenue, New York 22, N. Y.

WESTCHESTER SCHOLARSHIP (1937). In memory of Edna Chapin Close '02, by the Barnard College Club of Westchester. Awarded preferably to entering freshmen from Westchester County for one year only.

XI. Honors

The following funds were established to honor those who have shown exceptional promise of distinction in their chosen line of work. Students do not apply for these fellowships and scholarships; they are awarded on an honorary basis. The income from these funds is awarded each year, unless otherwise stated.

GRADUATE FELLOWSHIPS

DOROTHY ALLEN FELLOWSHIP (1948). Given on recommendation of the Department of Mathematics to a qualified senior graduating in February or June whose major field is mathematics or physics. The recipient will be selected on the basis of scholarship and character. Indications of a promising career and the student's plans for her future will be among the factors given consideration in making the selection. A needy student shall receive the entire sum towards tuition and other expenses of graduate work in mathematics or physics at an institution selected by the student. A student not in need shall receive \$100. In case no candidate is considered sufficiently well qualified, the award will be deferred until the following year. An award of \$800.

KIMBALL FELLOWSHIP FUND (1938). By bequest of Lillian Emma Kimball. Awarded to a woman from Spain or one of the Spanish-American countries who shall pursue a year of graduate work at Columbia or elsewhere, under the direction of a special committee of women members of the Faculty. \$32,800.

GEORGE WELWOOD MURRAY GRADUATE FELLOWSHIP FUND (1930). By George Welwood Murray. Awarded as an academic honor to that member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work in the field of the humanities and/or the social sciences. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which may then be used by the College for other fellowships or scholarships. Students who have graduated in February are eligible as well as those who are to graduate in June. The holder is to pursue a year of graduate study at Columbia or any other university or college of approved standing. \$20,000.

GRACE POTTER RICE FELLOWSHIP FUND (1935). In memory of his wife, Grace Potter Rice, Instructor and Assistant Professor of Chemistry at Barnard from 1918 to 1934, by Winthrop Merton Rice. Awarded as an academic honor to that member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which will then be used for other fellowships or scholarships. Students who have graduated in February are eligible, as well as those who are to graduate in June. The holder is to pursue a year of graduate study in natural sciences or mathematics at Columbia or any other university or college of approved standing. \$24,000.

THE HERBERT MAULE RICHARDS FUND (1933). In memory of Professor Richards, a member of the Department of Botany from 1896 to 1928 and Chairman from

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1897 to 1928, by the Barnard Botanical Club, former students, and friends. Granted from time to time to further botanical research, under the direction of an approved institution, to a student or an alumna of Barnard College. \$5,000.

GRADUATE SCHOLARSHIPS

ALPHA ZETA CLUB GRADUATE SCHOLARSHIP FUND (1936). By the Alpha Zeta Club, Inc. Awarded at the discretion of the Faculty as an academic honor to a member of the graduating class of Barnard College who, in their opinion, shows promise of distinction in her chosen line of work. It may also be awarded to an outstanding recent Barnard graduate who is a candidate for a higher degree. \$6,800.

WILLIAM MASON SCHOLARSHIP (1928). The William Mason Scholarship in music is awarded periodically on recommendation of the Department of Music to a member of the graduating class of Barnard or Columbia College for graduate studies in music. \$500.

MARGARET MEYER GRADUATE SCHOLARSHIP FUND (1952). In memory of Margaret Meyer Cohen '15, by bequest of Annie Nathan Meyer. Awarded to a student in the graduating class for instruction in secretarial work. \$3,000.

GRADUATE PRIZES

FRANK GILBERT BRYSON PRIZE (1931). In memory of Frank Gilbert Bryson, by bequest of Ella Fitzgerald Bryson '94. Awarded by vote of her class to a senior who has given conspicuous evidence of unselfishness, and who in the opinion of the class has made the greatest contribution to Barnard during her college career. Income on \$3,000.

DEAN PRIZE IN GERMAN (1925). By Edward D. Adams for the promotion of the study of German language and literature in Barnard College. Awarded to that member of the senior class who has throughout her course done the best work in German language and literature. Income on \$1,000.

KOHN MATHEMATICAL PRIZE (1892). By Mrs. S. H. Kohn. Awarded to a senior for excellence in mathematics. Competitors for this prize must have pursued mathematics continuously during their college course. Income on \$1,000.

UNDERGRADUATE AWARDS¹

The income from prize funds is awarded each year.

ESTELLE M. ALLISON PRIZE FUND (1937). By bequest of Estelle M. Allison. Awarded to a student for excellence in literature. \$1,000.

MARY E. ALLISON PRIZE FUND (1937). In memory of her mother, Mary E. Allison, by bequest of Estelle M. Allison. Awarded to a student for general excellence in scholarship. \$1,000.

¹ Figures compiled as of January 1, 1961.

BARNARD COLLEGE

THE AMERICAN STATISTICAL ASSOCIATION PRIZE, NEW YORK AREA CHAPTER (1960). Awarded annually to the outstanding undergraduate student in statistics. A one-year student membership in the American Statistical Association and \$50.

EDNA HENRY BENNETT MEMORIAL SCHOLARSHIP FUND (1927). In memory of Edna Bennett '15, Lecturer in Zoology, by her friends. The income is to be awarded by the Department of Zoology for work at a biological laboratory offering summer courses. \$1,640.

EUGENE H. BYRNE HISTORY PRIZE FUND (1960). In memory of Eugene H. Byrne, Professor of History at Barnard College and Executive Officer of the Department from 1931 to 1949, by his wife, Janet M. Byrne, and friends. Awarded for superior work to an undergraduate majoring in history. \$2,300.

THE COLUMBIA UNIVERSITY PRESS PRIZE. A copy of the Columbia Encyclopedia is awarded by the Columbia University Press to the member of the sophomore class who has done the best writing for Barnard Bulletin.

THE JENNY A. GERARD MEDAL (1908). The Jenny A. Gerard Gold Medal, given by the Society of the Colonial Dames in America in memory of Mrs. James Gerard, late President of the Society, is awarded annually to the undergraduate student writing the best essay on Colonial history.

GERMAN PRIZE FUND (1950). Awarded at the end of her junior year to an outstanding student majoring in German. In case the winner does not need scholarship help, the award shall be a prize of \$50 and the balance of the scholarship may be given to another able student majoring in German. If in any year no student qualifies for the award, it may be deferred and given to one or more qualified students at a later date. \$12,000.

HERRMAN BOTANICAL PRIZE FUND (1892). Mrs. Esther Herrman. Awarded to the most proficient undergraduate student in botany. \$1,000.

MEDAL OF THE HISPANIC INSTITUTE IN THE UNITED STATES. Awarded to an undergraduate for the best essay on Cervantes.

FRÉDÉRIC G. HOFFHERR FRENCH PRIZE FUND (1961). In memory of Frédéric G. Hoffherr, Associate Professor of French from 1936 to 1955. The income is awarded annually to a junior for excellence in oral French. The prize is offered to encourage proficiency among students who are not themselves of French background. The winner is chosen on the basis of a ten-minute disquisition. Candidates must have pursued French courses continuously during their Barnard career. \$1,025.

THE ELIZABETH JANEWAY PRIZE FOR PROSE WRITING. Open to all undergraduates for a work of prose, whether fiction or non-fiction, which gives the greatest evidence of creative imagination and sustained ability. All undergraduates who intend to enter the prize competition must notify the chairman of the English Department of their intention to do so by November 1, at which time they will receive detailed instructions as to the requirements. The final manuscripts must be submitted to the chairman by March 15. The prize will be given at the discretion of a board of three judges chosen by the College and the donor. \$500.

AMY LOVEMAN MEMORIAL FUND (1956). In memory of Amy Loveman '01, by her friends and classmates. First charge on the income shall be an annual prize of \$100

for the best original poem by a Barnard undergraduate. Terms of the competition will be announced later. The balance of the income shall be allocated to scholarships and shall be known as the Amy Loveman Scholarship. \$20,099.

THE LENORE MARSHALL PRIZES FOR WRITING (1960). For excellence in poetry and prose contributed to the undergraduate magazine, *Focus*. Adjudged by the donor, Mrs. Marshall, in consultation with the Department of English and the editors-in-chief, and awarded to promising young writers in need of financial aid. Two at \$50 each.

THE WILLIAM PEPPERELL MONTAGUE PRIZE FUND (1949). By William P. Montague, Lecturer, Instructor, and Professor of Philosophy at Barnard College from 1903 to 1949. Awarded to a student of Barnard College who, in the opinion of the members of the Department of Philosophy, shows promise of distinction in the field of philosophy. \$4,236.

THE HELEN PRINCE MEMORIAL PRIZE FUND (1921). In memory of his daughter, Helen C. Prince '22, by Julius Prince. Awarded to an undergraduate student for excellence in dramatic composition. \$1,200.

KATHARINE E. PROVOST MEMORIAL PRIZE FUND (1949). In memory of Katharine E. Provost. Miss Provost was for twenty-three years Secretary and Assistant to the Controller of Barnard College and, at the time of her death, Superintendent of Buildings and Grounds. Awarded for superior work by an undergraduate major in economics. \$1,000.

CAROLINE GALLUP REED PRIZE FUND (1916). In memory of her mother, Mrs. Sylvanus Reed, by Mrs. William Barclay Parsons for the recognition of special study in the subject of the origin of Christianity and early church history. Awarded to the student who shows the highest excellence in this field of work. The award is made partly on the basis of an examination and partly on the basis of an essay to be handed in by April 1. Details regarding the scope of the essay may be obtained from the Department of Religion. \$1,000.

MARIE REIMER SCHOLARSHIP FUND (1953). In honor of Professor Emeritus Marie Reimer, for many years Chairman of the Barnard College Department of Chemistry, by former students and friends. Awarded at the end of her junior year to an outstanding student majoring in chemistry. In case the winner does not need financial help, the award shall be a prize of \$50 and the balance of the scholarship may be given to another able student majoring in chemistry. If in any year, no student qualifies for the award, it may be deferred until the following year. \$4,600.

ANGELA DE SALVO SCOLA MEMORIAL PRIZE. In memory of Angela De Salvo Scola '31, by the Barnard College Club of Springfield, Massachusetts. To be awarded annually from 1961 through 1965 by representatives of each of the romance language departments to a junior for excellence in at least two romance languages. \$50.

SYLVIA KOPALD SELEKMAN PRIZE FUND (1960). In memory of Sylvia Kopald Selekman '20, by Janet Robb. Awarded by the Department of Economics to the freshman who is doing the best work in introductory economics. \$500.

SPANISH PRIZE. To be awarded annually to a Spanish major who, in the opinion of the Department, has done the most distinguished work in the Spanish language and literature. A prize of \$100, the income on the Spanish Prize Fund of \$2,500.

BARNARD COLLEGE

SPERANZA ITALIAN PRIZE FUND (1911). In memory of Carlo Leonardo Speranza, Instructor and Professor of Italian at Barnard College from 1890 to 1911, by a former student. Awarded to a student for excellence in Italian. \$1,000.

JEAN WILLARD TATLOCK MEMORIAL PRIZE FUND (1917). In memory of Jean Willard Tatlock '95, by her friends. Awarded to the undergraduate student most proficient in Latin. \$1,250.

VON WAHL PRIZE (1915). In memory of Constance von Wahl '12, President of the Undergraduate Association. Awarded to a student for excellence in zoology, on the understanding that it is to be used to advance her knowledge in that field. If in any year no student stands out as eminently deserving of the prize, it is not awarded. \$1,300.

The following prizes of Columbia University are by their terms open to students of Barnard College:

BENNETT PRIZE. A prize established through a gift of \$1,000 from James Gordon Bennett may be awarded by the Faculty of Political Science for the best essay upon some subject of contemporary interest in the domestic or foreign policy of the United States. The competition is open to students not holding a Bachelor's degree who pursue satisfactory courses in political science. The subject for 1961-62 is: "Any topic dealing with the domestic or foreign policy of the United States selected in connection with seminar work in one of the social science departments and approved by the chairman of the Bennett Prize Committee." For additional information consult Professor Richard E. Neustadt.

THE BUNNER MEDAL. The H. C. Bunner Gold Medal, in memory of Henry Cuyler Bunner, is awarded at Commencement to the candidate for a Columbia degree who shall present the best essay on any topic dealing with American literature selected in connection with course or seminar work in American literature and approved by the chairman of the Bunner Prize Committee. For additional information consult Professor Quentin Anderson.

EARLE PRIZE IN CLASSICS. A prize of \$50, in memory of Mortimer Lamson Earle, Instructor in Greek in Barnard College from 1889 to 1895 and from 1898 to 1900 and Professor of Classical Philology from 1900 to 1905, is awarded to a candidate for the degree of Bachelor of Arts, for excellence in sight translation of passages of Greek and Latin. For further information consult Professor John F. C. Richards.

THE CAROLINE PHELPS STOKES PRIZE. The Caroline Phelps Stokes Prize of \$45 is awarded at Commencement to that student who, having been regularly enrolled in Columbia College, Barnard College, or Teachers College as a candidate for an academic degree, for not less than two terms, autumn or spring, shall be deemed to have written the best essay on any topic on the rights of man selected in connection with course or seminar work and approved by the Stokes Prize Committee. For additional information consult Dean George W. Hibbitt.

VAN RENSSELAER PRIZE. To the candidate for a degree in Columbia University who is the author of the best example of English lyric verse. Material must be submitted by March 15. Applicants should submit not more than three poems of their own choice, aggregating not more than twenty pages. Income of the Marianna

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Griswold Van Rensselaer Fund, about \$50. For additional details consult Professor Frederick W. Dupee.

WOODBERRY PRIZE. Established by the Woodberry Society as a memorial to George Edward Woodberry. Awarded every second year to an undergraduate student of the University for the best original poem. Material must be submitted by March 15. Applicants should submit not more than three poems of their own choice, aggregating not more than twenty pages, unless a single poem is submitted in excess of that amount. If in the opinion of the committee of judges, no poem submitted in any prize year is worthy of this award, the prize will not be given. Open for competition in 1962-63. Value of prize about \$100. For additional details consult Professor Marjorie H. Nicolson.

The following prize is also open to Barnard students:

SUSAN HUNTINGTON VERNON PRIZE. A prize of about \$25, the annual income of the fund established in 1941 by pupils and friends of Mrs. Vernon, in tribute to her work at the Hispanic Institute, and augmented by her in 1943. The prize is awarded, on recommendation of the chairman of the Department of Spanish, for the best original essay written in Spanish by a senior whose native language is not Spanish, but who is taking language courses at Barnard, Mount Holyoke, Radcliffe, Smith, Vassar or Wellesley.

XII. Associate Alumnae of Barnard College

The Associate Alumnae of Barnard College is made up of over twelve thousand members from all states of the Union and over sixty foreign countries. The Associate Alumnae serve the College in three important ways: by interpreting Barnard to the community; by keeping local secondary school students informed about Barnard; and by aiding in the support of the College.

The Alumnae Association functions through a group of officers, directors and alumnae trustees elected by members of the Association. The central office of the Associate Alumnae is 118 Milbank Hall.

Barnard College Clubs, the Alumnae Council with nationwide membership, and a group of qualified and authorized alumnae make it possible to find spokesmen for Barnard at distances far from New York. High school students considering Barnard may find it helpful to talk personally with the Barnard representatives living nearest them. A list of these representatives as well as officers of the Associate Alumnae is given below.

OFFICERS OF THE ASSOCIATE ALUMNAE

MRS. WILLIAM P. WHITE, President

MRS. CARL HARRIS, 1st Vice-President

MRS. HENRY WETTINGFELD, JR., 2nd Vice-President

MISS PHYLLIS HADLEY, Treasurer

MRS. EDGAR T. MEAD, JR., Secretary

MISS MARY A. BLISS, Executive Secretary

DIRECTORS

MRS. HAROLD P. BODENSTAB

MRS. DAVID G. HASKINS

MRS. JOHN CHAMBERLAIN

MRS. HUBERT LINDSAY

MRS. ROBERT J. COOK

MRS. RANDALL MCINTYRE

MRS. PAUL H. FLINT

MRS. HERBERT E. MECKE

MRS. ELEANOR FRIED

MRS. CLIFFORD RUSCH

MRS. JAMES E. GARDNER, JR.

MRS. CHARLES STEHLE

MRS. CARL VON HOFFMAN

ALUMNAE TRUSTEES

MRS. HOMER VAN BEUREN JOY

MRS. MARK VAN DOREN

MRS. SYDNEY S. SPIVACK

MRS. WILLIAM P. WHITE

ASSOCIATE ALUMNAE

ALUMNAE REPRESENTATIVES

ARIZONA

- Flagstaff — MISS MARGARET CARRIGAN
Box 108, Arizona State College
- Phoenix — MRS. PRESBY COLBURN
7017 North 13th Street
- Tucson — MRS. RICHARD B. WOODBURY
2227 East Kleindale Road

ARKANSAS

- Hot Springs — MRS. CHARLES E. GARRATT
717 Prospect Avenue
- Little Rock — MRS. NORMAN HOLCOMB
2953 North Purie

CALIFORNIA

- Bakersfield — MRS. JOHN C. ANDERSON
204 Fairway Drive
- Berkeley — MISS CAROL ANN LOWENFISH
784 Santa Barbara Road
- Carmel — MRS. TALCOTT BATES
Route 3, Box 575
- Fair Oaks — MRS. ROBERT BRADBURY
4537 Kenneth Avenue
- La Puente — MRS. ERNST E. ERSELIUS
16156 Flamstead Drive
- Los Angeles — MRS. PAUL LEYTON
11837 Kiowa Avenue
- Mill Valley — MRS. J. R. MELBOSTAD
355 Vista Linda Road
- San Diego — MRS. J. ANTHONY SCHWARZMAN
1855 Lyndon Road
- San Francisco — MRS. HECTOR E. A. ESCOBOSA
2100 Jackson Street
- Santa Barbara — MRS. J. SAMUEL RUGG
1135 Oriole Road

COLORADO

- Denver — MRS. CARL E. FEHRENBACH
3232 South Josephine Street
- Grand Junction — MRS. T. M. PHETTEPLACE
2577 Galley Lane

CONNECTICUT

- Hartford — MRS. NORMAN RUUD
240 Kenyon Street

BARNARD COLLEGE

Milford	— MRS. STEPHEN RONAI 221 Gulf Street
New Canaan	— MRS. CARLOS GARCIA-MATA Oenoke Ridge Road
New Haven	— MRS. OTTO SPERR 84 Mansfield Street
Weston	— MRS. ALDEN O. SHERMAN Weston Road

DELAWARE

Wilmington	— MRS. V. HARDY SCHEUERMAN 2416 Shellpot Drive, Oak Lane Manor
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DISTRICT OF COLUMBIA

Washington	— MRS. CHARLES E. CLIFT, JR. 3500 Rodman Street, North West
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FLORIDA

Coral Gables	— MRS. WILLARD R. BROWN 3720 Harlano Street
--------------	--

GEORGIA

Vining	— MRS. DONN GAEBELEIN Randall Road
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ILLINOIS

Evanston	— MRS. F. PHILIP BROTHERTON 712 Roslyn Terrace
Northbrook	— MRS. JOHN N. SCHMIDT 2129 Oak Street
Wheaton	— MRS. PHILIP FAST 822 South Main Street

INDIANA

Indianapolis	— MRS. THOM VERHAVE 4111 East Pleasant Run Parkway, So. Drive
West Lafayette	— MRS. JOHN S. KARLING 1219 Tuckahoe Lane

KANSAS

Goodland	— MISS JO CLARE MANGUS P.O. Box 397
Topeka	— MRS. RICHARD FOTH 4011 West Dudley Road

LOUISIANA

New Orleans	— MRS. GEORGE R. MONTGOMERY 479 Audubon Street
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ASSOCIATE ALUMNAE

MAINE

- Brunswick — MRS. JAMES S. COLES
83 Federal Street
- Orono — MRS. WILLIAM A. SLEEPER, JR.
36 College Avenue

MARYLAND

- Baltimore — MRS. CHARLES R. JOHNSON
3218 Harford Road

MASSACHUSETTS

- Chestnut Hill — MRS. ALTON MEISTER
147 Woodchester Drive
- Milton — MISS DIANE HOWELL
501 Randolph Avenue
- Springfield — MRS. ARTHUR A. LEVIN
1764 Parker Street
- Wellesley — MRS. PAUL W. FAGER
42 Ingraham Road

MICHIGAN

- Birmingham — MRS. JAMES L. PARRIS
245 Hupp Cross Road

MINNESOTA

- Minneapolis — MRS. WILLIAM R. MORRIS, JR.
8100 Clinton Avenue, South
- St. Paul — MRS. JOSEPH McDERMOTT
2294 Marshall Avenue

MISSOURI

- Florissant — MRS. L. C. DeVOTO, JR.
605 Saint Christina Lane

NEBRASKA

- Omaha — MRS. JACKSON M. BARTON
2506 South 95 Street

NEW JERSEY

- Chatham — MRS. CHARLES E. ALLCOCK
7 Whitman Drive
- Middletown — MRS. FREDERICK BREMMER
14 Pine Ridge Avenue
- Upper Montclair — MRS. HOMER VAN BEUREN JOY
75 Grove Street
- Westfield — MRS. ROBERT A. CUSHMAN
528 Coleman Place
- West Long Branch — MRS. G. PHILIP LAWRENCE
25 Brookwillow Lane

BARNARD COLLEGE

NEW MEXICO

Albuquerque — MRS. HAROLD BELLINGHAM
2808 Kathryn Street, South East

NEW YORK

Albany — MISS MARY G. GOGGIN
443 State Street

Brooklyn — MISS NORA ROBELL
2518 Avenue I

Buffalo — MRS. BURTON M. SHINNERS
344 Linwood Avenue

Fayetteville — MRS. RICHARD ARONSON
411 Brooklea Drive

Larchmont — MRS. ALBERT GAYNOR
3 Concord Avenue

Rochester — MRS. JAMES W. JOHNSON
1214 Park Avenue

Schenectady — MISS MARION D. DALES
1055 Waverly Place

Westbury — MRS. REINHARD K. HELLMANN
309 Plainfield Street

OHIO

Cincinnati — MRS. HARRY W. WHITTAKER
2497 Grandin Road

Cleveland — MRS. SIDMON J. KAPLAN
2307 Chatfield Drive

OKLAHOMA

Oklahoma City — MRS. ROBERT N. FULTON
3816 North West 61 Street

OREGON

Portland — MRS. JAMES H. CLARKE
2324 South West Sherwood Drive

PENNSYLVANIA

Bethlehem — MRS. EDWARD C. PERKINS
72 East Market Street

Drexel Hill — MRS. EUGENE H. FINN
318 Shadeland Avenue

Mount Lebanon — MRS. LOUIS M. STARK
31 Marlin Drive East

Philadelphia — MRS. IRVING WOLMAN
7607 Woodlawn Avenue

Pittsburgh — MRS. PAUL B. FLECK
148 Washington Street

ASSOCIATE ALUMNAE

PUERTO RICO

Santurce

— MRS. ALBERT SANCHEZ
P.O. Box 9939

TEXAS

Dallas-Ft. Worth

— MRS. CLIFFORD K. WILLIAMS
4215 Ridge Road

Houston

— MISS JULIE J. CANTRELL
2115 Bancroft Lane, Apartment 2

San Antonio

— MRS. HUBERT G. LIVELY
Route 2, Box 275

VIRGINIA

Richmond

— MRS. E. CLIFFORD NELSON
1915 Montaigne Drive

Charlottesville

— DR AUDREY BROWN BOLLET
1714 Yorktown Drive

WASHINGTON

Seattle

— MRS. PETER WAYS
3863 50 Street, North East

Spokane

— MRS. WILL L. LORENZ
West 2229 First Avenue

Yakima

— MRS. STEPHEN B. MOSER
Route 2, Box 121A

WISCONSIN

Madison

— MRS. PADRAIC KENNEDY
606C Eagle Heights

Milwaukee

— MRS. BRUNO BITKER
925 Wells Street

XIII. Statistics

	1889 to 1890	1899 to 1900	1909 to 1910	1914 to 1915	1919 to 1920	1924 to 1925	1929 to 1930	1934 to 1935	1939 to 1940	1944 to 1945	1949 to 1950	1955 to 1956	1956 to 1957	1957 to 1958	1958 to 1959	1959 to 1960	1960 to 1961
UNDERGRADUATES, REGULAR:																	
Seniors .....	....	40	62	*123	87	*126	227	*181	*164	*208	*260	*306	*302	311	335	325	311
Juniors .....	....	40	122	110	190	259	237	220	191	314	277	364	362	376	360	356	381
Sophomores .....	....	37	109	191	193	234	247	226	210	314	272	321	354	334	345	352	387
Freshmen	14	54	188	240	224	271	311	267	246	324	271	322	303	312	341	385	383
Unclassified students .....	....	....	....	....	....	57	54	103	143	56	17	24	3	12	....	9	13
SPECIAL STUDENTS:	14	171	481	664	694	947	1076	997	954	1216	1097	1337	1324	1345	1381	1427	1475
Matriculated .....	....	21	24	32	39	....	....	....	....	....	....	....	....	....	....	....	....
Nonmatriculated .....	....	....	30	32	22	33	28	29	31	21	15	3	16	17	35	28	24
Departmental (1889-1896)	22	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Music students .....	....	41	....	5	....	....	....	....	....	....	....	....	....	....	....	....	....
(1896-1904, 1914-1915) .....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
GRADUATE STUDENTS (1890-1900).	22	62	54	69	61	33	28	29	31	21	15	3	16	17	35	28	24
TOTAL STUDENTS PRIMARILY REGISTERED AT BARNARD .....	....	82	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
STUDENTS FROM COLUMBIA UNIVERSITY	36	315	535	733	755	980	1104	1026	985	1237	1112	1340	1340	1362	1416	1455	1499
STUDENTS FROM TEACHERS COLLEGE .....	....	....	59	28	80	153	234	163	92	77	94	132	181	139	104	189	....
TOTAL STUDENTS FROM OTHER PARTS OF THE UNIVERSITY.....	....	18	200	108	38	50	62	21	20	12	4	....	2	2	1	3	....
TOTAL REGISTRATION .....	....	18	259	136	118	203	296	184	112	89	98	132	183	141	105	192	....
DEGREES CONFERRED:	36	333	794	869	873	1183	1400	1210	1097	1326	1210	1472	1523	1503	1521	1647	....
A.B. ....	....	39	88	141	139	198	247	221	206	270	303	304	330	315	345	347	....
B.S. (1909-1918) .....	....	18	2	8	5	....	....	....	....	....	....	....	....	....	....	....	....
A.M. (1898-1900) .....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

TOTAL BACHELOR'S DEGREES: CONFERRED 1893-1960: A.B., 12,220, B.S., 77.

* The figures for seniors include students counting the first year in a professional school of the University in place of the fourth year at Barnard as follows:

1913-14	18 in Education	1926-27	2 in Medicine	1934-35	1 in Law	1939-40	1 in Business	1948-49	1 in Medicine
1914-15	3 in Education	1927-28	1 in Architecture	1935-36	1 in Medicine	1942-43	1 in Law	1949-50	1 in Law
1916-17	1 in Journalism		1 in Business	1936-37	2 in Architecture	1943-44	1 in Law	1952-53	2 in Law
1921-22	1 in Journalism	1928-29	1 in Journalism	1937-38	2 in Medicine	1944-45	1 in Law	1953-54	2 in Medicine
1922-23	1 in Journalism		1 in Architecture	1938-39	3 in Law	1946-47	1 in Medicine	1955-56	3 in Medicine
1923-24	2 in Journalism	1932-33	1 in Journalism		1 in Architecture	1947-48	2 in Medicine	1956-57	1 in Medicine
1924-25	1 in Medicine		2 in Journalism		1 in Medicine				
	1 in Medicine		2 in Medicine						

XIV. Examination Groups

Courses are arranged in examination groups to avoid conflicts on the examination schedule. Groups are indicated by Arabic boldface numerals in brackets following the course title. Group **0** includes courses which ordinarily do not have final examinations. No student may elect two courses in the same examination group (except Group **0**), *unless she files in the Registrar's office with her official program a written statement from one or the other instructor that she will be given a special examination.*

Group [1] M W F 9

Anthropology 1, 2
Chemistry 41; 42
Economics 17, 18
English 53y; 82
Government 11; 12
History 7–8; 37, 38
Mathematics 15; 16; 25; 26
Philosophy 1x or 1y (I)
Psychology 21; 24
Religion 25, 26
Zoology 1–2; 1a–2a
Zoology ★G6129x

Group [2] M W F 10

Art History 61; 70
Botany 5, 6
Chemistry 55, 56
Economics 28
English 43; 70; 79, 80; 87y
French 4x, 5y; 7y; 30
Geology 1; 2
Government 9; 10
History 25, 26
Mathematics 7–8
Music 1 (I); 31x–32y
Philosophy 1x or 1y (II); 61, 62
Psychology 27; 27a; 28; 28a
Sociology 21–22
Spanish 15a–16a

Group [3] M W F 11

Art History 91, 92
Classical Civilization 57
Economics 16; 23
English 63; 64; 75; 77
French 8x; 23, 24
Geography 3, 4

Mathematics 33
Humanities 41, 42
Music 1 (II); 4; 25
Philosophy 1x or 1y (III); 24; 25
Psychology 15; 26
Sociology 43, 44
Spanish 3a; 4a; 17–18

Group [4] M W F 1

Anthropology 14
Art History 43; 64
English 41y; 65; 66
French 6x; 21, 22
Government 15; 31, 32
History 27, 28; 43; 58 (Religion 58)
Latin 1–2; 11; 12
Music 5; 31–32
Philosophy 5; 84
Psychology 57
Sociology 33; 34

Group [5] M W F 2

Anthropology 9; 12
Art History 51, 52
Botany 10
Chemistry 99 (F 2–4)
Economics 25, 26 (M W 2:10–3:25)
English 71, 72; 78; 85
Geology 19; 34
German 15, 16 (2:10–3:25)
Greek 1–2
History 33–34
Latin 3; 4
Mathematics 41
Philosophy 7; 22; 76
Russian 3–4
Sociology 39; 40

BARNARD COLLEGE

Group [6] T Th 9

Anthropology 7
Art History 1–2 (9:30–10:30)
Botany 1–2; 1a–2a
Chemistry 1; 2; 1a–2a
French 27, 28 (9:10–10:25)
Government 25, 26 (9:10–10:25)
History 11, 12 (9:10–10:25)
Latin 25; 26 (9:10–10:25)
Philosophy 1x or 1y (IV)
(9:10–10:25)
Psychology 10; 37 (9:10–10:25)
Religion 1x or 1y (9:10–10:25)
Spanish 13, 14
Zoology 3

Group [7] T Th 10

Anthropology 5–6 (10:35–11:50)
Art History 75, 76 (10:35–11:50)
Chemistry 8; 85; 90 (10:35–11:50)
Economics 30; 31 (10:35–11:50)
English 55, 56 (10:35–11:50)
English 84 (10:35–11:50)
Geography 1, 2 (10:35–11:50)
Government 8; 27, 28 (10:35–11:50)
Mathematics 36 (10:35–11:50)
Philosophy 4 (10:35–11:50)
Philosophy 9 (Religion 13)
(10:35–11:50)
Religion 9, 10; 16 (10:35–11:50)
Sociology 46 (10:35–11:50)
Zoology 8

Group [8] T Th 11

English 73, 74
German 25, 26
Psychology 67
Spanish 23–24
Zoology 13; 14

Group [9] T Th 2

Anthropology 19; 20 (Th 2–4)
Art History 65; 66
Botany ★G6151x–G6152y
Economics 19 (2:10–3:25)
Economics ★G4713x–G4714y
(T 2:10–4)
Education 1–2 (T 2–4)
Education 3–4 (T 2–4)
English 83; 86 (2:10–3:25)
French 32 (2:10–3:25)

Geography 15 W
German 31
Government 17; 18; 20 (2:10–3:25)
Music 12 (T 2–4, Th 2)
Sociology 32 (T 2–4)
Sociology 37 (T 2 or 3)
Spanish 19; 22; 33, 34

Group [10] M W F 3

Art History 77; 78 (M W 3–4:30)
French 14
Mathematics 34
Oriental Humanities 39–40
Psychology 11x or 11y (M W 2–4)
Sociology 41, 42

Group [11]

Psychology 1x or 1y (Sections)
Psychology 7–8 (Sections)
Psychology 41–42

Group [12]

Art History 97–98 (Th 3–5)
English 41, 42 (Sections)
History 53–54
Philosophy 42

Group [13]

Art History 81 (T 3–5)
Art History 82 (T F 3:30–5)
Economics 1–2 (Sections)
Geography 17 (M W 12)
Recreational Leadership 1 (M W 4)

Group [14]

French 1–2 (Sections)
French 3, 4 (Sections)
French 5, 6 (Sections)
French 7–8 (Sections)
French ★G4025x

Group [15]

German 1–2 (Sections)
German 3, 4 (Sections)
German 5, 6 (Sections)
Government 1, 2; 36
Russian 1–2

EXAMINATION GROUPS

Group [16]

History 1–2 (Sections)
Oriental Civilizations 35–36 (Sections)

Spanish 3, 4 (Sections)
Spanish 5, 6 (Sections)
Spanish 15–16 (Sections)

Group [17]

Physics 3–4 (T Th 3:35–4:50)
Spanish 1–2 (Sections)

Group [18]

Sociology 1–2 (Sections)
Sociology 66 (Religion 66) (F 2–4)

Group [0]

There is no restriction on courses in this group. They may be taken together or with courses in other groups, provided there is no conflict in class hours. Group [0] includes courses which ordinarily do not have set examinations.

American Studies 1, 2; 3, 4
Anthropology 51, 52; 53, 54
Botany ★G6161x, ★G6162y
British Civilization 81–82
Chemistry 57; 64; 78; 87, 88
Economics 51–52; 61, 62
Education 5–6
English A1–A2
English 1, 2; 3, 4; 5, 6
English 7, 8; 11, 12; 13, 14
English 19; 20; 21, 22; 21y
English 23, 24; 27, 28; 29–30
English 91, 92; 93 or 93y
English 97, 98 or 98x, 97y
French 11–12; 13; 15–16; 17–18;
37–38; 39–40

Geology 60
German 3a, 4a; 9, 10; 61, 62
Government 45, 46; 61, 62
History 81, 82; 83, 84
History 85, 86; 87, 88
Music 32ax; 33ay; 39–40; 79–80
Oriental Humanities 39–40
Philosophy 63, 64; 65–66
Psychology 48
Religion 35, 36; 83
Sociology 81, 82; 97; 98
Spanish 9, 10; 11–12
Spanish 29, 30; 31–32
Zoology 61, 62; 72
Zoology ★G6130y

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BEQUEST FORM

General

I,, give and bequeath to Barnard College in the City of New York the sum of.....for the uses and purposes of the said Corporation.

Endowment

I,, give and bequeath to Barnard College in the City of New York the sum of.....to be added to the General Endowment of the said Corporation.

For a Specific Purpose

I,, give and bequeath to Barnard College in the City of New York the sum of.....to be used for the purposes of.....

.....
to be known as the.....Fund. If at any time in the judgment of the Trustees of the said Corporation, the need of income for such purposes no longer exists, the Trustees of the said Corporation shall be, and hereby are, authorized to use the income from the Fund for such purposes as shall in their judgment promote the interests of the College.

The Morningside Campus & Environs

